

VERSION DESCRIPTION DOCUMENT FOR THE ACQUISITION MANAGEMENT SYSTEM (AMS)

Release 8.0

PrISMS Contract

February 2004



National Aeronautics and
Space Administration

George C. Marshall Space Flight Center
Huntsville, AL 35812

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FOR THE
ACQUISITION MANAGEMENT SYSTEM (AMS)
RELEASE 8.0**

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GEORGE C. MARSHALL SPACE FLIGHT CENTER
HUNTSVILLE, ALABAMA

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GEORGE C. MARSHALL SPACE FLIGHT CENTER
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1.0 INTRODUCTION

This Version Description Document (VDD) describes the changes and installation procedures for Release 8.0 of the Acquisition Management System (AMS). This section identifies the release, describes its purpose, defines its scope, and identifies its contact points.

1.1 IDENTIFICATION OF THE RELEASE

This software release is identified as AMS, Release 8.0 and has an effective release date of February 27, 2004.

1.2 PURPOSE OF THE RELEASE

This release implements modifications necessitated by the following Change Control Requests (CCR's):

CCR 1314 – Increase in field length for ACCESSION-NUM.

CCR 1315 – FACS Changes. **(Originally released as AMS 7.9.0 Emergency Release.)**

CCR 1317 – Remove Contract Financing, Mid-Range Indicator, and Best Value Indicator from AMS.

CCR 1318 – Add a new field for "Fee Paid for Use of IDV".

CCR 1319 – Increase size of Principal and Secondary Investigator Fields. Only five fields will be required for the 1356 data.

CCR 1320 – Table for Major Program and Program Acronym

CCR 1321 – Apply PPC codes for Kind of Action 1 and 3 to Kind of Action 18, 19, and 20. **(Originally released as part of AMS 7.9.0 Emergency Release #2.)**

CCR 1323 – Add Destroy Date and Accession Number fields back to all screens. **(Originally released as part of AMS 7.9.0 Emergency Release #2.)**

CCR 1324 – For Purchase Orders less than \$25K that are being closed out, change AMS so that CIC NUM and CPOP are not required and records are not reported. **(Originally released as part of AMS 7.9.0 Emergency Release #2.)**

CCR 1325 – 1356 data is required only for awards for Universities and Nonprofits with Product/Service codes beginning with 'A'. Awards to Universities and Nonprofits are determined by the contractor types of 05, 08, 09, 15, 18, 19, 25, or 29. **(Originally released as part of AMS 7.9.0 Emergency Release #2.)**

CCR 1326 – Subcontract Program Plan edits need to be changed. Allowed values for Subcontract Program Plan are now 'A', 'B', 'C', 'D', or blank. **(Originally released as part of AMS 7.9.0 Emergency Release #2.)**

CCR 1328 – Add additional 1356 data to FACS submission. The Field of Science or Engineering field needs to be added to the FACS

submission. **(Originally released as part of AMS 7.9.0 Emergency Release #2.)**

CCR 1329 – Add additional entries to the Kind of Action Table (Table 17), KOA 97 and KOA 98 need to be added to the Kind of Action Table.

(Originally released as part of AMS 7.9.0 Emergency Release #2.)

CCR 1330 – Contract Mods with Kind of Action 16 cannot be queried or updated.

CCR 1333 – Change conditions which allow CIC NUM and CPOP on small purchase orders to be blank. **(Originally released as part of AMS 7.9.0 Emergency Release #3.)**

CCR 1334 – Change program code to reduce the number of records read during a file look-up on the PR-X-Reference File. This change was requested to keep some sites from exceeding their Adabas MADIO parameters. **(Originally released as part of AMS 7.9.0 Emergency Release #3.)**

CCR 1336 – Website URL should be optional unless IDV-TYPE-CODE is 'A' or 'F'. The Who Can Use field should be mandatory if the value in the Type of IDV field is an 'A', 'B', 'D', 'E', or 'F'. It should not be required if the value in the Type of IDV field is a 'C'.

CCR 1337 – Add entry to FEE FOR USE OF SERVICE CODES Table.

CCR 1338 – Purchase Card as Payment Indicator is needed on Small Purchase Order Screen.

CCR 1340 – Change dollar amount threshold which designates large or small Purchase Order.

CCR 1341 – Delivery Order Completion Dates should come from composite record.

1.3 SCOPE

This VDD provides the functional and technical user of AMS with information regarding the contents, status, and structure of Release 8.0, including the following:

- Changes implemented since Release 7.9.0.
- Validation procedures to ensure the reliability of release changes.
- References to other documentation affected by this release.
- Detailed software installation instructions.

No waivers are associated with this release.

1.4 CONTACT POINTS

Sustaining Engineering for AMS is provided through the Consolidation Center (CC) located at Marshall Space Flight Center (MSFC). Questions regarding the functional and/or the technical aspects as well as the installation of this release should be directed to:

The NACC Technical Services Center (Identify yourself as SESAAS & AMS.)

Telephone: (256) 544-6673

Email: charmaine.styles-oscarson@msfc.nasa.gov

FAX: (256) 544-1836

2.0 FUNCTIONAL INFORMATION

This section includes details regarding functional changes, functional interfaces, critical issues, affected documents, and application system administration.

2.1 FUNCTIONAL CHANGES

Please refer to Appendix C, Functional Change Validation Procedures, for a description of all functional changes related to this release. Appendix D, Installation Instructions, describes all Software PREDICT and SYSERR changes related to this release. Appendix E contains sample JCL that will be needed for release installation.

2.2 FUNCTIONAL INTERFACES

This release has no functional impact on interfaces with any SESAAS (Sustaining Engineering Support for Agencywide Administrative Systems) application.

2.3 CRITICAL ISSUES

The record length for the FACS history dataset and the FACS transmission dataset has been increased to 1109 bytes. Any Job Control Language (JCL) referencing these datasets will need to be changed to reflect this increase. This includes JCL for the FACS Contract Lead Time Report, FACS Trial Run Submission, and the FACS Monthly Submission. See Appendix E for sample JCL.

JCL modifications will be necessary for your center's PDWS extract job. A core utility, LPDWSJCL, was developed for AMS Release 7.7.0 to load the PDWS JCL from a dataset into the AMS JCL tables Table 97 and Table 98. The dataset can be modified and reloaded into the AMS JCL tables as needed. See Appendix D for the name of the dataset containing the PDWS JCL.

The record length changes for the PDWS JCL are as follows:

	<u>LRECL BEFORE</u>	<u>LRECL AFTER</u>
CONTRACTS		
put 'MSIRM.AMS0DT.CONTR.BASIC' conbas.txt	1793	1799
put 'MSIRM.AMS0DT.CONTR.COMP' concomp.txt	1793	1799
put 'MSIRM.AMS0DT.CONTR.MODS' conmod.txt	1793	1799
GRANTS		
put 'MSIRM.AMS0DT.GRANT.BASIC' grntbas.txt	1035	1119
put 'MSIRM.AMS0DT.GRANT.COMP' grntcomp.txt	1035	1119
put 'MSIRM.AMS0DT.GRANT.MODS' grntmod.txt	1035	1119
put 'MSIRM.AMS0DT.CNTR1356.DATA' contract1356.txt	1000	1084

PURCHASE ORDERS

put 'MSIRM.AMS0DT.PURORDER.BASIC' pobas.txt	1321	1341
put 'MSIRM.AMS0DT.PURORDER.COMP' pocomp.txt	1321	1341
put 'MSIRM.AMS0DT.PURORDER.MODS' pomod.txt	1321	1341

All adhoc must be run before executing any validation procedures. See Appendix D for installation instructions.

The adhoc programs included in this release **must** be run in a specific order. Refer to Appendix D, Section 6, Post-Predict Data Conversion, for the order in which to run the adhoc programs.

Parameter data areas were changed in subprograms NAXPA1NA and NAPRUHNA. Centers need to review the changes made and evaluate what changes need to be made to site unique modules.

2.4 AFFECTED DOCUMENTS

No documents are affected by this release.

2.5 APPLICATION SYSTEM ADMINISTRATION

There are no application system administration changes associated with this release.

3.0 TECHNICAL INFORMATION

This section includes details regarding technical system interfaces, data dictionary changes, software object changes, and database administration activities.

3.1 TECHNICAL SYSTEM INTERFACES

There are no technical systems interface issues with this release.

3.2 DATA DICTIONARY CHANGES

Dictionary changes are detailed in Appendix D, Section 4.0.

3.3 SOFTWARE OBJECT CHANGES

Modules affected by this release are included in Appendix D, Section 2.2.

3.4 DATABASE ADMINISTRATION

This section describes the database administration activities for installation of this release.

3.4.1 Release Dataset Names

Refer to Appendix D, Introduction section, for the release dataset names.

3.4.2 Inventory of Objects

Refer to Appendix D, Paragraph 2.1, for an inventory of Natural object types.

3.4.3 Storage Considerations

The changes represented by this release should not affect storage requirements.

3.4.4 Installation Procedures

Refer to Appendix D, Installation Instructions for AMS Software Release 8.0 for detailed software installation procedures.

3.5 OPERATIONAL PREPARATION

Refer to the procedure described in Appendix D for assistance in preparing for proper installation and operational use of this release.

4.0 KNOWN AND OPEN PROBLEMS

There are no known or open problems related to this release.

APPENDIX A

ABBREVIATIONS AND ACRONYMS

ABBREVIATIONS AND ACRONYMS

AMS	Acquisition Management System
CC	Consolidation Center
CCR	Change Control Request
FACS	Financial and Contractual Status
JCL	Job Control Language
MSFC	Marshall Space Flight Center
NACC	NASA Automated Data Processing (ADP) Consolidation Center
NAIS	NASA Acquisition Internet Service
NASA	National Aeronautics and Space Administration
PDWS	Procurement Data Warehouse System
RC	Requirements Change
SESAAS	Sustaining Engineering Support for Agencywide Administrative Systems
VDD	Version Description Document

APPENDIX B

GLOSSARY

GLOSSARY

Database Administration

Responsibility for maintaining the physical database environment.

Implementation

The process by which a NASA site installs a software release and places it into operational use.

Operational Preparation

Preparation by a NASA site for installation and use of a release.

System Administration

Responsibility for administrative functions such as application security and table data maintenance associated with an application.

APPENDIX C
FUNCTIONAL CHANGE VALIDATION
PROCEDURES

FUNCTIONAL CHANGE VALIDATION PROCEDURES

Index of validation procedures for changes in this release.

Section	CCR	Title
1.0	1314	Increase in field length for ACCESSION-NUM
2.0	1315	FACS Changes (Originally released as AMS 7.9.0 Emergency Release Fix #1)
3.0	1317	Remove Contract Financing, Mid-Range Indicator, and Best Value Indicator from AMS
4.0	1318	Add a new field for "Fee Paid for Use of IDV"
5.0	1319	Increase size of Principal and Secondary Investigator Fields. Only five fields will be required for the 1356 data.
6.0	1320	Table for Major Program and Program Acronym
7.0	1321	Apply PPC codes for Kind of Action 1 and 3 to Kind of Action 18, 19, and 20 (Originally released as part of AMS 7.9.0 Emergency Release Fix #2)
8.0	1323	Add Destroy Date and Accession Number fields back to all screens (Originally released as part of AMS 7.9.0 Emergency Release Fix #2)
9.0	1324	For Purchase Orders less than \$25K that are being closed out, change AMS so that CIC NUM and CPOP are not required and records are not reported (Originally released as part of AMS 7.9.0 Emergency Release Fix #2)
10.0	1325	1356 data is required only for awards for Universities and Nonprofits with Product/Service codes beginning with 'A'. Awards to Universities and Nonprofits are determined by the contractor types of 05, 08, 09, 15, 18, 19, 25, or 29 (Originally released as part of AMS 7.9.0 Emergency Release Fix #2)
11.0	1326	Subcontract Program Plan edits need to be changed. Allowed values for Subcontract Program Plan are now 'A', 'B', 'C', 'D', or blank (Originally released as part of AMS 7.9.0 Emergency Release Fix #2)
12.0	1328	Add additional 1356 data to FACS submission. The Field of Science or Engineering field needs to be added to the FACS submission (Originally released as part of AMS 7.9.0 Emergency Release Fix #2)
13.0	1329	Add additional entries to the Kind of Action Table (Table 17), KOA 97 and KOA 98 need to be added to the Kind of Action Table (Originally released as part of AMS 7.9.0 Emergency Release Fix #2)
14.0	1330	Contract Mods with Kind of Action 16 cannot be queried or updated.
15.0	1333	Change conditions which allow CIC NUM and CPOP

		on small purchase orders to be blank (Originally released as part of AMS 7.9.0 Emergency Release Fix #3)
16.0	1334	Change program code to reduce the number of records read during a file look-up on the PR-X-Reference File. This change was requested to keep some sites from exceeding their Adabas MADIO parameters (Originally released as part of AMS 7.9.0 Emergency Release Fix # 3)
17.0	1336	Website URL should be optional unless IDV-TYPE-CODE is 'A' or 'F' The Who Can Use field should be mandatory if the value in the Type of IDV field is an 'A', 'B', 'D', 'E', or 'F'. It should not be required if the value in the Type of IDV field is a 'C'.
18.0	1337	Add entry to Fee for Use of Service Codes Table
19.0	1338	Purchase Card as Payment Indicator is needed on Small Purchase Order Screen
20.0	1340	Change dollar amount threshold which designates large or small Purchase Order
21.0	1341	Delivery Order Completion Dates should come from composite record
22.0		PDWS Related Changes
23.0		FACS Related Changes

Details for the validation procedures are listed below.

1.0 Number 1314

Increase the field length of Accession-Num from A15 to A21.

Description of Change

The length of field Accession-Num was increased from A15 to A21.

Functional Impact

The user can now enter up to 21 characters in the Accession-Num field.

Validation Procedures

1. Verify the version number on the Banner Screen has been changed to 8.0.
2. Add a small purchase order being sure to use the 15th to 21st positions of Accession-Num.
3. Using the Update option of the Purchase Order Award Menu, view the small purchase order added in Step 2. Verify that the value in the Accession-Num field is correct.
4. Change the value in the Accession-Num field, being sure to use the 15th to 21st positions.
5. Using the Query option of the Purchase Order Award Menu, view the small purchase order added in Step 2. Verify that the value in the Accession-Num field is correct.
6. Repeat Steps 2 through 5 with a large purchase order.
7. Using option 6 (Update a Contract in Closeout) of the Contract Closeout Processing Options, enter a value in the Accession-Num field, being sure to use the 15th to 21st positions.
8. Return to the same screen to verify that the value in the Accession-Num field is correct.
9. Using option 2 (Query a Contract in Closeout) of the Contract Closeout Processing Options, verify that the value in the Accession-Num field is correct.
10. Using option 2 (Update Closeout Data) of the Grant Closeout Processing Options, enter a value in the Accession-Num field, being sure to use the 15th to 21st positions.
11. Return to the same screen to verify that the value in the Accession-Num field is correct.
12. Using option 1 (Query Closeout Data) of the Grant Closeout Processing Options, verify that the value in the Accession-Num field is correct.
13. When running PDWS, verify that the Accession-Num field has been expanded to 21 bytes in the extracts for basic contracts, composite contracts, contract modifications, basic purchase orders, composite purchase orders, purchase order modifications, basic grants, composite grants, grant supplements, and contract 1356 data. (See Section 19 for validation procedures for PDWS related changes.)

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
NACC01MA	Map for QCC20 and QCC22	Map
NACC22MA	Map for QCC22	Map
QCC20	Contract Closeout Processing Options	Program
QCC22	Update Closeout Data for a Contract	Program
QCGXPDWS	AMS Contract File Extract	Program
QEMSA15	Map 1 for QSA15	Map
QEMSA15A	Map 2 for QSA15	Map
QEMSA16	Map for QSA16	Map
QEMSA17	Map 1 for QSA17	Map
QEMSA17A	Map 2 for QSA17	Map
QEMSA21	Map 1 for QSA21	Map
QEMSA21A	Map 2 for QSA21	Map
QEMSA22	Map for QSA22	Map
QENCPDWS	Write Contract Work Files	Subprogram
QENNPDWS	Write Grant Work Files	Subprogram
QENSPDWS	Write Purchase Order Work Files	Subprogram
QGM00	Session Initialization	Program
QNC10	Query Closeout Data for a Grant	Program
QNC20	Update Closeout Data for a Grant	Program
QNGXPDWS	AMS Grant File Extract	Program
QSA15L	Local Data Area for QSA15	Local
QSA17L	Local Data Area for QSA17	Local
QSA21	Large PO Award Update Screen – Page 1	Program
QSGXPDWS	AMS Purchase Order File Extract	Program

2.0 Number 1315

FACS Changes.

Description of Change

The purpose of this CCR is to implement two new requirements for FACS and to correct several problems reported during testing of the AMS 7.9 release.

The two requirements for FACS are as follows:

1. The Physical Completion Date will be reported as a one byte indicator to specify the completion of a contract, purchase order, or grant. The indicator will occupy position 133 in the FACS dataset.
2. The field, Reason Not Small Business, must be reported for contracts and purchase orders, and will occupy positions 134 and 135 in the FACS dataset. See Section 20 (FACS Related Changes) for the new FACS layout.

The corrections are as follows:

1. The startup program, QGM00, was changed to fix the calculation for the new fiscal year.
2. The contract query was changed to display the correct values for Contract Financing and Contract Funding.
3. The Price/Cost Update for small POs was corrected so that Available Options will not contain a negative value when first entering the screen.
4. The parameter conflict error when running QGU01 to change system generated flags for validation purposes was corrected.
5. Some of the adhoc programs, CCR1311D and CCR1311E specifically, used for installing new tables were changed to correct the 'End Transaction' logic.
6. The program, CCR1310B, was changed to default the value for the global +CENTER to blank instead of 'M'. (After installing the emergency release, each center will need to set the global value on Table 39 to the value for their center. Page C-4 in the AMS 7.9 VDD contains a list of pre-assigned center values.)
7. The program, CCR1311G, was changed to add the abbreviations or codes that once existed to the revised Contract Type Table (Table 19).
8. The Center Kind of Action conversion program, CCR1311L, was changed to include delivery orders.
9. Screen navigation was corrected for document browse and validation functions.
10. The function to change document numbers was modified to also change the document number for contracts having 1356 data.
11. Changes were made to fix validation anomalies for small and large PO awards and modifications.
12. The online report 'Browse by Referenced Contract Number' was changed to correct record indexing and sorting problems.

Functional Impact

The Physical Completion Date will be reported in FACS as a one byte indicator to specify the completion of a contract, purchase order, or grant. The Reason Not Small Business field will be reported for contracts and purchase orders.

Validation Procedures

1. Because there were so many changes for this CCR, thorough testing of all of AMS functions is recommended.
2. When running FACS, verify that the Physical Completion Date Indicator field is reported in column 133 and that the Reason Not Small Business field is reported in columns 134 to 135. (See Section 20 for validation procedures for FACS related changes.)

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
CCR1310B	Adhoc	Program
CCR1311D	Adhoc	Program
CCR1311E	Adhoc	Program
CCR1311G	Adhoc	Program
CCR1311H	Adhoc	Program
CCR1311J	Adhoc	Program
CCR1311L	Adhoc	Program
NAGR01PA	FACS Lead Time Report	Program
NAXBOAPA	Browse Referenced Contract Number	Program
QCA20	Contract Award Add – Page 1	Program
QCA27	Contract Award Query – Page 2	Program
QCA28	Contract Award Query – Page 3	Program
QCA85	Form 507 Edit Module	Program
QCA87	Contract 507 Edit Message Display	Program
QCA88	Table 507 Display for Error Help	Program
QCA89	PPC Edit Value Display for 507 Error Help	Program
QCB50	Add Contract Mod	Program
QCFACSPA	Parameter Data for FACS	Parameter
QCFACSPB	Parameter Data for FACS	Parameter
QEMCA27	Map for QCA27	Map
QEMSA16	Map for QSA16	Map
QEMSA19	Map for QSA19	Map
QEMSB34	Map for QSB34	Map
QEMSB53	Map 1 for QSB53/QSB54	Map
QEMSB53A	Map 2 for QSB53	Map
QEMSB54A	Map 2 for QSB54	Map
QEMSB55	Map for QSB55	Map
QEMSB56	Map 1 for QSB56	Map
QEMSB56A	Map 2 for QSB56	Map
QEMSB57	Map for QSB57	Map
QENGR14B	Compare History Record for Updated Data	Subprogram
QENGR14C	Build FACS Record	Subprogram
QENGR15E	FACS Compare Subroutine – Unique Field	Subprogram

	Compare for PO's >= \$25K	
QENGR15F	FACS Build Record Subroutine	Subprogram
QGR07	Contract Trial FACS Report	Program
QGR08	FACS Trial Run – Purchase Orders	Program
QGR09	Trial Run FACS for Grants	Program
QGR14	Contract FACS Driver	Program
QGR15	FACS Submission for Grants	Program
QGR16	Create FACS Tape for Grant File	Program
QGU01	Update System Generated Flags and Dates	Program
QGU02	Change the Document or Modification Number for a Contract, PO, or Grant	Program
QNFACSL	Local Data Area for FACS	Local
QSA00	PO Award Menu	Program
QSA15	PO Add	Program
QSA16	Small Purchase Order Query – Page 1	Program
QSA17	Small Purchase Order Update – Page 1	Program
QSA17L	Local Data Area for QSA17	Local
QSA18	Small Purchase Order Update – Page 2	Program
QSA19	Small Purchase Order Query – Page 2	Program
QSA21	Large Purchase Order Update – Page 1	Program
QSA50	PO/PR Cross Reference Tracking Update	Program
QSA51	PO/PR Cross Reference Tracking Inquiry	Program
QSA80	PO 507 Edit Driver	Program
QSB00	PO Administration Menu	Program
QSB33	Cost Tracking – Financial Data for Basic Purchase Order Add	Program
QSB34	Cost Tracking – Financial Data for Basic Purchase Order Update	Program
QSB50	Large Purchase Order Mod Add – Page 1	Program
QSB51	Large Purchase Order Mod Update – Page 1	Program
QSB53	Small Purchase Order Mod Add – Page 1	Program
QSB54	Small Purchase Order Mod Update – Page 1	Program
QSB55	Small PO Modification Query – Page 1	Program
QSB56	PO Modification Update – Page 2	Program
QSB57	PO Modification Query – Page 2	Program
QSB58	Small PO Modification Update – Page 2	Program
QSFACSL	Local Data Area for FACS	Local
QSFACSP	Parameter Data for FACS	Parameter
TBLWK1XX	Local Data Area for Adhocs	Local

3.0 Number 1317

Remove Contract Financing, Mid-Range Indicator, and Best Value Indicator from AMS

Description of Change

The Contract Financing field, Mid-Range Indicator field, and the Best Value Indicator field were removed from all screens in AMS. These fields will no longer be reported in FACS.

Parameter data areas were changed in subprograms NAXPA1NA and NAPRUHNA. Centers need to review the changes made and evaluate what changes need to be made to site unique modules.

Functional Impact

Data will no longer be captured for the following fields: Contract Financing, Mid-Range Indicator, and Best Value Indicator.

Validation Procedures

1. Verify that the following entries have been removed from Table 49 (Contract Field Names and Numbers for PPC Edit):

KEY	RESULT
=====	=====
44	CONTRACT-FINANCING-CODE 02
78	CNTRCT-BEST-VALUE-IND 02
79	CNTRCT-MID-RNG-IND 02

2. Verify that Table 80 (Contract Financing Codes) no longer exists.
3. Verify that the entry for Table 80 has been removed from Table AA (Master List of Tables).
4. Verify that all options which used to capture these fields still function properly.
5. When running FACS, verify Contract Financing, Mid-Range Indicator, and Best Value Indicator are no longer being populated in the FACS output. These were in positions 378, 510, and 523. (See Section 20 for validation procedures for FACS related changes.)

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
CCR1317A	Adhoc	Program
CCR1317B	Adhoc	Program
NAGR01PA	FACS Lead Time Report	Program
NAPRUHNA	Update Site Unique Files with PR Data	Subprogram
NAXBOAPA	Browse Referenced Contract Number	Program
NAXPA1NA	Center Unique PR File Add	Subprogram
QCA25	Contract Award Update – Page 2	Program
QCA25L	Local Data Area for QCA25	Local
QCA27	Contract Award Query – Page 2	Program
QCA80	Contract 507 Edit Driver	Program
QCA85	Form 507 Edit Module	Program
QCFACSPA	Parameter Data for FACS	Parameter
QCFACSPB	Parameter Data for FACS	Parameter

QEMCA25	Map 1 for QCA25	Map
QEMCA25A	Map 2 for QCA25	Map
QEMCA25B	Map 3 for QCA25	Map
QEMCA27	Map for QCA27	Map
QEMPA01A	Map 1 for QPA01A	Map
QEMPA01B	Map 1 for QPA01B	Map
QEMPA01C	Map 2 for QPA01A	Map
QEMPA01D	Map 3 for QPA01A	Map
QEMPA01E	Map 2 for QPA01B	Map
QEMPA01F	Map 3 for QPA01B	Map
QEMPU01	Map for QPU01	Map
QENA25	Contract Update Validation Check	Subprogram
QENCA25	Calculate Lead Times	Subprogram
QENGR14B	Compare History Record for Updated Data	Subprogram
QENGR14C	Build FACS Record	Subprogram
QENGR15E	FACS Compare Subroutine – Unique Field Compare for PO's > = \$25K	Subprogram
QENPA01A	PR Edits	Subprogram
QENSA01	Retrieve Large/Small PO Indicator	Subprogram
QEWBV10A	Query Purchase Order	Subprogram
QGR08	FACS Trial Run – Purchase Orders	Program
QGR15	FACS Submission for Grants	Program
QPA01A	Add a PR Record	Program
QPA01B	Add a PR Record (From a File)	Program
QPD01	Delete a PR Record	Program
QPQ01	Query a PR Record	Program
QPU01	Update a PR Record	Program
QPX01	PR to Document Cross Reference	Program
QSA00	PO Award Menu	Program
QSA15	PO Add	Program
QSA16	Small Purchase Order Query – Page 1	Program
QSA17	Small Purchase Order Update – Page 1	Program
QSA21	Large Purchase Order Update – Page 1	Program
QSA80	PO 507 Edit Driver	Program
QSB00	PO Administration Menu	Program
QSB33	Cost Tracking – Financial Data for Basic Purchase Order Add	Program
QSB34	Cost Tracking – Financial Data for Basic Purchase Order Update	Program
QSB35	Cost Tracking – Financial Data for Purchase Order Modification Add or Update	Program
QSB37	Cost Tracking – Financial Data for Basic Purchase Order Inquiry	Program
QSB38	Cost Tracking – Financial Data for Purchase Order Modification Query	Program

4.0 Number 1318

Add new field for "Fee Paid for Use of IDV".

Description of Change

FEE-PAID-FOR-USE-OF-IDV-AMT was added to the Purchase Order file. It will be referred to as FEE PAID FOR IDV on the purchase order screens.

Functional Impact

Fee Paid for Use of IDV Amount will be captured for purchase order records.

Validation Procedures

1. Verify that the following entry is on Table 49 (Contract Field Names and Numbers for PPC Edit):

KEY	RESULT
=====	=====
120	FEE-PAID-FOR-USE-OF-IDV-AMT 01
2. Add a small purchase order being sure to enter a value in the FEE PAID FOR IDV field.
3. Using the Update option of the Purchase Order Award Menu, view the small purchase order added in Step 1. Verify that the value in the FEE PAID FOR IDV field is correct.
4. Change the value in the FEE PAID FOR IDV field.
5. Using the Query option of the Purchase Order Award Menu, view the small purchase order added in Step 1. Verify that the value in the FEE PAID FOR IDV field is correct.
6. Using option 3 (Delete Vendor) of the Vendor Update Menu, enter the VID NUM used when adding the small purchase order in Step 1.
7. When the Vendor Delete screen is displayed, enter a 'D' in the Option field and the number related to the small purchase order added in Step 1 in the Sel field. Press <Enter>.
8. Verify that the value in the FEE PAID FOR IDV field is correct.
9. Repeat Steps 1 through 7 with a large purchase order.
10. When running PDWS, verify that the FEE-PAID-FOR-USE-OF-IDV-AMT field has been added to the extracts for basic purchase orders, composite purchase orders, and purchase order modifications. (See Section 19 for validation procedures for PDWS related changes.)
11. When running FACS, verify that the FEE-PAID-FOR-USE-OF-IDV-AMT field is reported in columns 1094 to 1104 for purchase order records. Contracts and grants should have blanks in those positions. (See Section 20 for validation procedures for FACS related changes.)

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
CCR1318	Adhoc	Program
QCFACSPA	Parameter Data for FACS	Parameter
QCFACSPB	Parameter Data for FACS	Parameter
QEMSA15	Map 1 for QSA15	Map
QEMSA15A	Map 2 for QSA15	Map
QEMSA16	Map for QSA16	Map
QEMSA17	Map 1 for QSA17	Map
QEMSA17A	Map 2 for QSA17	Map
QEMSA21	Map 1 for QSA21	Map
QEMSA21A	Map 2 for QSA21	Map
QEMSA22	Map for QSA22	Map
QENGR15E	FACS Compare Subroutine – Unique Field Compare for PO's > = \$25K	Subprogram
QENGR15F	FACS Build Record Subroutine	Subprogram
QENSPDWS	PDWS Extract for PO's	Subprogram
QEWBV10A	Query Purchase Order	Subprogram
QGR07	Contract Trial FACS Report	Program
QGR08	FACS Trial Run – Purchase Orders	Program
QGR09	Trial Run FACS for Grants	Program
QGR14	Contract FACS Driver	Program
QGR15	FACS Submission for Grants	Program
QGR16	Create FACS Tape for Grant File	Program
QNFACSL	Local Data Area for FACS	Local
QSA15	PO Add	Program
QSA15L	Local Data Area for QSA15	Local
QSA16	Small Purchase Order Query – Page 1	Program
QSA17	Small Purchase Order Update – Page 1	Program
QSA17L	Local Data Area for QSA17	Local
QSA21	Large Purchase Order Update – Page 1	Program
QSA22	Large Purchase Order Query – Page 1	Program
QSB54	Small Purchase Order Mod Update – Page 1	Program
QSFACSP	Parameter Data for FACS	Parameter
QSGXPDWS	PDWS Extract for PO's	Program

5.0 Number 1319

Increase size of Principal and Secondary Investigator Fields. Only five fields will be required for the 1356 data.

Description of Change

The length of PRINC-INVES-1, PRINC-INVES-2, and PRINC-INVES-3 was increased from A15 to A41.

The only fields that need to be required for the 1356 data are as follows: Principal Investigator, Alternate Principal Investigator, Primary NASA Tech Officer, Alternate NASA Tech Officer, and Field of Science or Engineering. All other fields on the Case (Form 1356) screen are optional.

Functional Impact

The user can now enter up to 41 characters in the PRINC-INVES-1, PRINC-INVES-2, and PRINC-INVES-3 fields.

Please note above in the description change the new entry requirements for existing fields.

Validation Procedures

1. Using option 7 (Add 1356 Data) of the Contract Award Menu and an existing contract, add 1356 data to the contract. Verify that the following fields are required: Principal Investigator, Alternate Principal Investigator, Primary NASA Tech Officer, Alternate NASA Tech Officer, and Field of Science or Engineering.
2. Verify that all other fields on the Case (Form 1356) screen are optional.
3. Using option 8 (Update 1356 Data) of the Contract Award Menu and the contract from Step 1, add or update the three Principal Investigator fields, being sure to use the 15th to 41st positions.
4. Using option 9 (Query 1356 Data) of the Contract Award Menu and the contract used in Step 1, view the Case (Form 1356) screen. Verify that the values in the three Principal Investigator fields are correct.
5. Using option 5 (Update Form 1356) of the Grant Award Menu and an existing grant, add 1356 data to the grant. Verify that the following fields are required: Principal Investigator, Alternate Principal Investigator, Primary NASA Tech Officer, Alternate NASA Tech Officer, and Field of Science or Engineering.
6. Verify that all other fields on the Case (Form 1356) screen are optional.
7. Using option 5 (Update Form 1356) of the Grant Award Menu and the grant from Step 5, update the three Principal Investigator fields, being sure to use the 15th to 41st positions.
8. Using option 6 (Query Form 1356) of the Grant Award Menu and the grant used in Step 5, view the Case (Form 1356) screen. Verify that the values in the three Principal Investigator fields are correct.
9. When running PDWS, verify that the PRINC-INVES-1, PRINC-INVES-2, and the PRINC-INVES-3 fields have been expanded to 41 bytes in the extracts for basic grants, composite grants, grant supplements, and contract 1356 data. (See Section 19 for validation procedures for PDWS related changes.)

10. When running FACS, verify that the PRINC-INVES-1 field is reported in columns 991 to 1031 and that the PRINC-INVES-2 field is reported in columns 1032 to 1072. (See Section 20 for validation procedures for FACS related changes.)

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
QCA30	Contract Case (Form 1356) Add/Update	Program
QCA35	Contract Case (Form 1356) Query	Program
QCFACSPA	Parameter Data for FACS	Parameter
QCFACSPB	Parameter Data for FACS	Parameter
QENCN01	Composite Field Update (Grants)	Subprogram
QENCN02	Composite Field Update (Grants-Supp Num)	Subprogram
QENNPDWS	PDWS Extract for Grants	Subprogram
QGR07	Contract Trial FACS Report	Program
QGR08	FACS Trial Run – Purchase Orders	Program
QGR09	Trial Run FACS for Grants	Program
QGR14	Contract FACS Driver	Program
QGR15	FACS Submission for Grants	Program
QGR16	Create FACS Tape for Grant File	Program
QGU01	Update System Generated Flags and Dates	Program
QGU02	Change the Document or Mod Number for a Contract, PO, or Grant	Program
QNA21	Grant Award Update Screen	Program
QNA30	Grant Case (Form 1356) Add/Update	Program
QNA35	Grant Case (Form 1356) Query	Program
QNB34	Cost Tracking – Financial Data for Basic Grant Update	Program
QNB50	Grant Supplement Addition	Program
QNB51	Grant Supplement Update	Program
QNB61	Grant Mod Deletion	Program
QNC20	Update Closeout Data for a Grant	Program
QNFACSL	Local Data Area for FACS	Local
QNGXPDWS	PDWS Extract for Grants	Program
QSFACSP	Parameter Data for FACS	Parameter

6.0 Number 1320

Table for Major Program and Program Acronym.

Description of Change

Table 84, which contains Program Acronyms and their related Major Program, was created. When a valid value is entered in the Program Acronym field (which is on Page 3 of the Large Purchase Order screen and the Contract Award screen), the Major Program Name field will be populated with the correct value.

Functional Impact

The user does not have to enter a value in the Major Program field. It will be filled automatically if a valid value is entered in the Program Acronym field.

A value can still be entered in the Major Program field, but if the Major Program field already contains a value, it will be overwritten if it is different from the value associated with the Program Acronym.

If an invalid value is entered in the Program Acronym field, the Major Program field will not be changed. If it is blank, it will remain blank. If it contains a value, that value will remain.

Validation Procedures

1. Verify that the entry for Table 84 has been added to Table AA (Master List of Tables). Verify that the three lines of data on Table AA for Key = 'QGA84T' is as follows:

(84) PROGRAM ACRONYM - MAJOR PROGRAM
KEY = PROGRAM ACRONYM (A16)
RESULT = MAJOR PROGRAM (A50)

2. Verify that Table 84 has 171 entries. They should be as follows:

KEY	RESULT
=====	=====
AATT	ADVANCED AIR TRANSPORTATIONTECHNOLOGIES
ACN	ADVANCED COMMUNICATIONS AND NAVIGATION
ACRIMSAT	ACTIVE CACITY RADIOMETER IRRADIANCE MONITOR
AHMS	SSP ADVANCED HEALTH MANAGEMENT SYSTEM
AIM	AIM (SMEX-9)
AIST	ADVANCED INFORMATION SYSTEMS TECHNOLOGY
ALI	NMP EO-1 (ADV LAND IMAGER)
AOS	AIRSPACE OPERATIONS SYSTEMS
AQUA	AQUA (PREVIOUSLY NAMED PM MISSION)
AQUARIUS	ESSP- AQUARIUS
AR	ALTIMETRY RADAR (JASON-1)
AST	AVIATION SECURITIES TECHNOLOGIES
ASTROE2	ASTRO-E2 (MO-4)
ATI	ADVANCED TECHNOLOGY INITIATIVE
AURA	AURA (PREVIOUSLY NAMED CHEM. MISSION)
AVC	ADVANCED VEHICLE CONCEPTS
BVT	BREAKTHROUGH VEHICLE TECHNOLOGIES
CALYPSO	CALYPSO (FORMERLY ESSP-3 OR ESSP-PICASSO-CENA)
CASSINI	CASSINI
CAU	SSP COCKPIT AVIONICS UPGRADE
CHANDRA	CHANDRA X-RAY OBSERVATORY

CHIPS	CHIPS (UNEX-1)
CICT	COMPUTING, INFORMATION & COMMUNICATIONS TECHNOLOGY
CINDI	CINDI (MO-3)
CLOUDSAT	ESSP-CLOUDSAT
CNIS	COMPUTING, NETWORKING, AND INFORMATION SYSTEMS
DAWN	DAWN
DI	DEEP IMPACT
DISCOVERY	DISCOVERY
DISCOVER	DEEP SPACE CLIMATE OBSERVATORY (FORMERLY TRIANA)
ECLSS	ISS ENVIRONMENTAL CONTROL AND LIFE SUPPORT SYSTEM
ECT	ENABLING CONCEPTS & TECHNOLOGY
ECTAMD	ECT ADVANCED MEASUREMENT & DETECTION
ECTASC	ECT ADVANCED SYSTEMS CONCEPTS
ECTE	ECT ENERGETICS
ECTLSS	ECT LARGE SPACE SYSTEMS
ECTRS	ECT REVOLUTIONARY SPACECRAFT
EOS	EARTH OBSERVING SYSTEM
ESDIS	ESDIS
ET	SSP EXTERNAL TANK
EUSO	EUSO (MO-5)
EVA	SSP EXTRAVEHICULAR ACTIVITY
FCF	FLUIDS AND COMBUSTION FACILITY
FH	SSP FLIGHT HARDWARE
FO	SSP FLIGHT OPERATIONS
FR	FLIGHT RESEARCH
FUSE	FUSE
GALEX	GALEX (SMEX-7)
GENESIS	GENESIS
GIFTS	NMP EO-3 (STUDY GEOSTATIONARY IMAGING FOURIER TRANSFORM SPECTROMETER)
GLAST	GLAST
GO	SSP GROUND OPERATIONS
GOES	GEOSTATIONARY OPERATIONAL ENVIRONMENTAL SATELLITES
GOESIM	GOES I-M
GOESNP	GOES N-P
GOESRU	GOES R-U
GPB	GRAVITY PROBE B
GRACE	ESSP- GRAVITY RECOVERY AND CLIMATE EXPERIMENT
HERSCHEL	HERSCHEL
HETE2	HETE-2 (MO-1)
HFD	HYPERSONIC FLIGHT DEMONSTRATORS (X-43)
HHR	HABITAT HOLDING RACK (HHR-1, HHR-2)
HRF-2	HUMAN RESEARCH FACILITY 2
HST	HUBBLE SPACE TELESCOPE
HSTFSS	HST FLIGHT SYSTEMS & SERVICING
HSTOGS	HST OPERATIONS & GROUND SYSTEMS
HYDROS	ESSP-HYDROS
ICESat	ICE, CLOUDS & LAND ELEVATION SATELLITE
IIP	INSTRUMENT INCUBATOR PROJECT
IS	INTELLIGENT SYSTEMS (IS)
ISP	IN SPACE PROPULSION
ISS	INTERNATIONAL SPACE STATION
ISSCD	ISS CORE DEVELOPMENT
ISSCU	ISS CAPABILITY UPGRADES
ISSLMO	ISS LAUNCH AND MISSION OPERATIONS
ISSNODE3	ISS NODE 3
ISSOI	ISS OPERATIONS INTEGRATION
ISSOO	ISS OTHER(VEHICLE,GROUND,PROGRAM MANAGEMENT)OPERATIONS
ISSR	ISS RESEARCH
ISSSCO	ISS SPACE CRAFT OPERATIONS
ITSR	INFORMATION TECHNOLOGY STRATEGIC RESEARCH

JWSP	JAMES WEBB SPACE TELESCOPE
KEPLER	KEPLER
KESS	KESS
KI	KECK INTERFEROMETER
LANDSAT7	LANDSAT-7
LBT	LARGE BINOCULAR TELESCOPE
LOXRP	LOX/RP ENGINE TECHNOLOGY
LPS	SSP LAUNCH PROCESSING SYSTEM
LTMPF	LOW-TEMPERATURE MICROGRAVITY PHYSICS FACILITY
LWAS	LIVING WITH A STAR
ME	MARS EXPLORATION
MER	MARS EXPLORATION ROVER 2003
MESSENGER	MESSENGER
MRO	MARS RECON ORBITER 2005
MSC	MICHELSON SCIENCE CENTER
MSRR	MATERIALS SCIENCE RESEARCH RACK
NF	NEW FRONTIERS
NGATS	NEXT GENERATIONS AIR TRANSPORTATION SYSTEM
NGLT	NEXT GENERATION LAUNCH TECHNOLOGIES
NISN	WIDE-AREA NETWORK/NASA INTEGRATED SERVICE NETWORK
NM	NEW MILLENNIUM*
NPM	NEW MILLENNIUM PROGRAM
NPP	NPOESS PREPARATORY PROJEC
OCO	ESSP- ORBITING CARBON OBSERVATORY
ODY	ODYSSEY
OSP	ORBITAL SPACE PLANE
OSPDART	OSP DEMONSTRATION OF AUTONOMOUS RENDEZVOUS TECHNOL
	OGY
OSPD	OSP DESIGN & INTEGRATION
OSPPAD	OSP PAD ABORT DEMONSTRATOR
OSPX37	OSP X-37 (APPROACH & LANDING TEST VEHICLE/ORBITAL
	VEHICLE)
PLANCK	PLANCK
POES	POLAR OPERATIONAL ENVIRONMENTAL SATELLITES
PP	PROPULSION & POWER
PROM	PROMETHEUS
QAT	QUIET AIRCRAFT TECHNOLOGY
QS	QUIKSCAT
RBCC	ROCKET-BASED COMBINED CYCLE
RHESSI	RHESSI (SMEX-6)
ROSETTA	ROSETTA
RSO	RESILIENT SYSTEMS & OPERATIONS
RSRM	SSP REUSABLE SOLID ROCKET MOTOR
RTF	SSP RETURN TO FLIGHT
SAGE-III	STRATOSPHERIC AEROSOL & GAS EXPERIMENT
SBIR	SMALL BUSINESS INNOVATIVE RESEARCH
SBTT	SMALL BUSINESS TECHNOLOGY TRANSFER
SC	SPACE COMMUNICATIONS (SC)
SCOUTS07	SCOUTS 07 (PHOENIX)
SEAWINDS	SEAWINDS-1A
SFS	SPACE AND FLIGHT SUPPORT
SFSAS	SFS ADVANCED SYSTEMS
SFSCHS	SFS CREW HEALTH & SAFETY
SFSL	SFS LAUNCH SERVICES
SFSRPT	SFS ROCKET PROP TESTING
SI	SSP SYSTEM INTEGRATION
SIM	SPACE INTERFEROMETER
SIRTF	SPACE INFRARED TELESCOPE FACILITY
SLEP	SSP SERVICE LIFE EXTENSION PROGRAM
SM	SPECTRUM MANAGEMENT
SN	SPACE NETWORK
SOB	SOLAR B

SODO	SOLAR DYNAMICS OBSERVATORY
SOFIA	STRATOSPHERIC OBSERVATORY FOR INFRARED ASTRONOMY
SOHO	SOHO
SORCE	SOLAR RADIATION & CLIMATE EXPERIMENT
SRB	SSP SOLID ROCKET BOOSTER
SRRM	SYSTEM REASONING & RISK MANAGEMENT
SRTM	SHUTTLE RADAR TOPOGRAPHY MISSION
SSME	SSP SPACE SHUTTLE MAIN ENGINE
SSP	SPACE SHUTTLE PROGRAM
SST	SYSTEM SAFETY TECHNOLOGIES
STARDUST	STARDUST
STEREO	STEREO
ST5	SPACE TECHNOLOGY 5
ST6	SPACE TECHNOLOGY 6
ST7	SPACE TECHNOLOGY 7
SWIFT	SWIFT (MIDEX-3)
TBCC	TURBINE-BASED COMBINED CYCLE
TCAT	21ST CENTURY AIRCRAFT
TDRS	TRACKING AND DATA RELAY SATELLITE
TERRA	TERRA (PREVIOUSLY NAMED AM MISSION)
THEMIS	THEMIS (MIDEX-5)
TIMED	TIMED
TTP	TECHNOLOGY TRANSFER PARTNERSHIPS
TWINS	TWINS (MO-2)
UEET	ULTRA-EFFICIENT ENGINE TECHNOLOGY
VAMS	VIRTUAL AIRSPACE MODELING & SIMULATION
VCL	ESSP- VEGETATION CANOPY LIDAR
VST	VEHICLE SAFETY TECHNOLOGIES
WMAP	WMAP (MIDEX-2)
WST	WEATHER SAFETY TECHNOLOGIES

3. Add a Large Purchase Order. On Page 3, enter a value in the Major Program field. Leave the Program Acronym field blank. Press <Enter>.
4. Return to Page 3 of this Purchase Order. Enter a value in the Program Acronym field. Press <Enter>. The Major Program field should be changed to the value associated with the Program Acronym.
5. Return to Page 3 of this Purchase Order. Change the value in the Program Acronym field. Press <Enter>. The Major Program field should be changed to the value associated with the Program Acronym field.
6. Return to Page 3 of this Purchase Order. Change the value in the Major Program field. Leave the Program Acronym field as it is. Press <Enter>. The Major Program field should be changed back to the value associated with the Program Acronym field.
7. Return to Page 3 of this Purchase Order. Blank out the Major Program field. Change the value in the Program Acronym field to an invalid Program Acronym. Press <Enter>. The Major Program field should remain blank. The invalid value in the Program Acronym field should remain.
8. Repeat steps 3 through 7 with a contract.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
CCR1320A	Adhoc	Program
QCA23	Contract Award Update – Page 3	Program
QSA23	Large PO Award Update – Page 3	Program

7.0 Number 1321

Apply PPC Codes for Kind of Action 1 and 3 to Kind of Action 18, 19, and 20.

Description of Change

Changes were made to some of the interrelational edits in the 507 Fatal Error Edits Table (Table 50). This is the table that contains the valid combinations of PPC, CICA, and Kind of Action (KOA) values. KOA 18, 19 and 20 were added to the award portion and 53, 54, 97, 98 and 99 to the mod portion of all table entries that had KOA 01 and 03. The changes to the mod portion were made only when there was at least one KOA already in the mod portion.

Some of the interrelational edits relating to KOA and Referenced Contract Number, KOA and NAICS Code, KOA and Country of Manufacturer, and KOA and Price/Est Cost were also modified.

A listing of the edits affected by this CCR is provided for reference. This listing can be found in Appendix F.

Cross-reference edits may disallow these values for other reasons, but the edits defined above should not prohibit these combinations.

A number of edits that are performed before the validation process were also changed.

Functional Impact

Any PPC and CICA combination that allowed KOA 01 and 03 in validation of awards should allow KOA 18, 19, or 20. On a mod where KOA is required, a KOA of 53, 54, 97, 98, or 99 should be allowed. In addition, on contracts and purchase orders where the Referenced Contract Number is not blank, KOA 61 should be allowed.

Validation Procedures

1. Add or update a contract with KOA equal to 18, 19, or 20. Any PPC and CICA combination that previously allowed KOA 01 and 03 in validation of awards should allow KOA of 18, 19, or 20.
2. Add or update a contract modification that requires a Kind of Action. On a mod where KOA is required, a KOA of 53, 54, 97, 98, or 99 should be allowed.
3. Add or update a contract with KOA equal to 18, 19, or 20 where the Referenced Contract Number is blank. The system should allow this.
4. Add or update a contract with KOA equal to 20 where the Referenced Contract Number is not blank. The system should allow this.
5. Add or update a contract with a KOA of 61 where the Referenced Contract Number is not blank. The system should allow this.
6. Add or update a contract with a KOA of 61 where the Referenced Contract Number is blank. The system should not allow this.

7. Add or update a contract with KOA equal to 18, 19, or 20 where NAICS Code is not blank. The system should allow this.
8. Add or update a contract with KOA equal to 18, 19, or 20 where NAICS Code is blank. The system should not allow this.
9. Add or update a contract with KOA equal to 18, 19, or 20 where Country of Manufacturer is not blank. The system should allow this.
10. Add or update a contract with KOA equal to 18, 19, or 20 where Country of Manufacturer is blank. The system should not allow this.
11. Add or update a contract with KOA equal to 18, 19, or 20 and the Percent Performance Based field containing a valid value (A-H, J-L or N). The system should allow this.
12. Add or update a contract with KOA equal to 18, 19, or 20 where the Percent Performance Based field is a blank. The system should give an error message.
13. Add or update a contract with KOA equal to 18, 19, or 20 where the Hubzone Price Eval Pref Difference Pct is greater than zero. The system should allow this.
14. Add or update a contract with KOA equal to 18, 19, or 20 where the SDB Price Eval Adj Difference Pct is greater than zero. The system should allow this.
15. Add or update a contract with KOA equal to 18, 19, or 20 where the Commercial Item Acquisition field is N or Y. The system should allow this.
16. Add or update a contract with KOA equal to 18, 19, or 20 where the Commercial Item Acquisition field is blank. The system should give an error message.
17. Repeat tests 1-16 using purchase orders instead of contracts.
18. Ensure that a contract and a large purchase order with
 - a. Award Date after 09/30/1989
 - b. Large/Small Business is L or S
 - c. KOA equal to 1, 3, 18, 19, 25, 26, 27 or 28
 - d. that is a DIG or a TIC
 - e. and Demonstration Test Program is not Ywill not validate.
19. Ensure that a contract and a large purchase order with
 - a. Award Date after 09/30/1989
 - b. KOA equal to 1, 3, 18, 19, 25, 26, 27 or 28
 - c. Demonstration Test program is not N
 - d. Large/Small Business is not W and not L and not Swill not validate.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
CCR1321	Adhoc	Program
NACB50NA	Edit Checks for QCB50 and QCB51	Subprogram
QCA20	Contract Award Add – Page 1	Program
QCA21	Contract Award Update – Page 1	Program
QCA23	Contract Award Update – Page 3	Program
QCA25	Contract Award Update – Page 2	Program
QENCA85	Exception Edit Subprogram	Subprogram
QSA21	Large Purchase Order Update – Page 1	Program
QSA23	Large Purchase Order Update – Page 3	Program
QSA25	Large Purchase Order Update – Page 2	Program

8.0 Number 1323

Add Destroy Date and Accession Number fields back to all screens.

Description of Change

The Destroy Date and Accession Number fields were added to the Large Purchase Order Update Screen and the Large Purchase Order Query Screen.

Functional Impact

Destroy Date and Accession Number data can now be entered on the Large Purchase Order Screen and viewed on the Large Purchase Order Query Screen.

Validation Procedures

1. Verify that the Destroy Date field and the Accession Number field are displayed on the following screens:
 - Large Purchase Order Update Screen
 - Large Purchase Order Query Screen
2. Verify that valid data may be entered into these fields on the Large Purchase Order Update Screen.
3. Verify that the data is displayed correctly on the Large Purchase Order Query Screen.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
QEMSA21	Map 1 for QSA21	Map
QEMSA21A	Map 2 for QSA21	Map
QEMSA22	Map for QSA22	Map
QEWBV10A	Query Purchase Order	Subprogram
QEWBV10B	Query Contract Award	Subprogram
QSA21	Large Purchase Order Update – Page 1	Program
QSA22	Large Purchase Order Query – Page 1	Program

9.0 Number 1324

For Purchase Orders less than \$25K that are being closed out, change AMS so that CIC NUM and CPOP are not required and records are not reported.

Description of Change

Beginning with Release 7.9.0, CIC NUM and CPOP VID are required for Small Purchase Orders. It has been requested that CIC NUM and CPOP VID not be required for existing Small Purchase Orders that are being closed out. It was also requested that these Small Purchase Orders not be reported.

The conditions that indicate closeout status to disable required entry of CIC NUM and CPOP VID are as follows:

- Price Estimated Cost < 25000 **and**
- Accession Num has been entered **and**
- Destroy Date has been entered **and**
- Final Invoice Paid Date has been entered and is less than 10-01-2003 **and**
- To Closeout Date has been entered and is less than 10-01-2003 **and**
- Physical Completion Date has been entered and is less than 10-01-2003 **and**
- PO Termination Date has been entered and is less than 10-01-2003

If all of these conditions are met, then

- CIC NUM is not required.
- CPOP VID is not required.
- The REPORTED flag will not change when changes are made to the Purchase Order.
- The VALIDATED flag will not change when changes are made to the Purchase Order.

NOTE: The conditions that need to be met to disable the required entry of CIC NUM and CPOP VID were modified by the requirements of CCR1333, which was released as part of Source Fix #3.

Functional Impact

When certain conditions are met, CIC NUM and CPOP VID will not be required for small purchase orders. Changes to these small purchase orders will not be reported in FACS.

Validation Procedures

1. Please see the validation procedures for CCR1333. The conditions that need to be met to disable the required entry of CIC NUM and CPOP VID were modified by the requirements of CCR1333, which was released as part of Source Fix #3.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
QGU02	Change Document or Mod Number	Program
QSA17	Small Purchase Order Update – Page 1	Program
QSA17L	Local Data Area for QSA17	Local
QSA18	Small Purchase Order Update – Page 2	Program
QSA80	PO 507 Edit Driver	Program

10.0 Number 1325

1356 data is required only for awards for Universities and Nonprofits with Product/Service codes beginning with 'A'. Awards to Universities and Nonprofits are determined by the contractor types of 05, 08, 09, 15, 18, 19, 25, or 29.

Description of Change

The requirement that all awards with a product/service code beginning with 'A' should have 1356 data has changed. The requirement now is that all awards with a product/service code beginning with 'A' that is for Universities and Nonprofits should have 1356 data. Awards to Universities and Nonprofits are determined by the contractor types of 05, 08, 09, 15, 18, 19, 25, or 29.

Functional Impact

A contract that has a product/service code beginning with 'A' but not having one of the specified contractor types will validate without requiring 1356 data. A contract that has a product/service code beginning with 'A' and having one of the specified contractor types will still require 1356 data before it will validate.

Validation Procedures

1. Verify that a contract with a product/service code beginning with 'A' and one of the listed contractor types requires 1356 data to be entered before the contract is validated.
2. Verify that a contract with a product/service code beginning with 'A' but not having one of the specified contractor types does not require 1356 data to be entered before the contract is validated.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
QCA21	Contract Award Add – Page 1	Program
QCA85	Form 507 Edit Module	Program
QCA89	PPC Edit Value Display for 507 Error Help	Program

11.0 Number 1326

Subcontract Program Plan edits need to be changed. Allowed values for Subcontract Program Plan are now 'A', 'B', 'C', 'D', or blank

Description of Change

The edits for Subcontract Program Plan have changed. Previous valid entries for this field were 'Y', 'N', 'W', or blank. Valid entries are now 'A', 'B', 'C', 'D', or blank.

A listing of the Subcontract Program Plan edits as they appear on Table 50 is provided for reference. This listing can be found in Appendix F.

Functional Impact

Valid entries for the Subcontract Program Plan field are now 'A', 'B', 'C', 'D', or blank. 'Y', 'N', and 'W' are no longer valid values for this field.

Validation Procedures

1. Verify that the following will no longer allow entry of the old values for the Subcontract Program Plan field:
 - Large Purchase Order
 - Small Purchase Order Modification
 - Large Purchase Order Modification
 - Contract
 - Contract Modification
2. Verify that the following will validate with the new values for the Subcontract Program Plan field:
 - Large Purchase Order
 - Small Purchase Order Modification
 - Large Purchase Order Modification
 - Contract
 - Contract Modification

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
CCR1326	Adhoc	Program
NACB50NA	Edit Checks for QCB50 and QCB51	Subprogram
QCA25	Contract Award Update – Page 2	Program
QSA25	Large Purchase Order Update – Page 2	Program
QSB50	Large Purchase Order Mod Add – Page 1	Program
QSB51	Large Purchase Order Mod Update – Page 1	Program
QSB53	Small Purchase Order Mod Add – Page 1	Program
QSB54	Small Purchase Order Mod Update – Page 1	Program

12.0 Number 1328

Add additional 1356 data to FACS submission. The Field of Science or Engineering field needs to be added to the FACS submission.

Description of Change

The Field of Science or Engineering field has been added to the FACS submission.

See Section 20 (FACS Related Changes) for the new FACS layout.

Functional Impact

The Field of Science or Engineering field will be reported to HQ when FACS is submitted.

Validation Procedures

1. When running FACS, verify that the Field of Science or Engineering field is reported in columns 136 to 137 for contract records with 1356 data. The field should not appear on contract mod records. (See Section 20 for validation procedures for FACS related changes.)

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
QCFACSPA	Parameter Data for FACS	Parameter
QCFACSPB	Parameter Data for FACS	Parameter
QENGR14B	FACS Compare History	Subprogram
QENGR14C	FACS Report; Build FACS Record	Subprogram

13.0 Number 1329

Add additional entries to the Kind of Action Table (Table 17) KOA 97 and KOA 98 need to be added to the Kind of Action Table.

Description of Change

Entries for Kind of Action 97 and Kind of Action 98 were added to the Kind of Action Table (Table 17).

Functional Impact

Users will be able to validate documents that have Kind of Action 97 or Kind of Action 98.

Validation Procedures

1. Verify that Table 17 (Kind of Action Codes) has 31 entries.
2. Verify the following two entries are among the entries on Table 17:

KEY	RESULT
97	FUNDING ONLY
98	NOVATION AGREEMENT

3. Verify that documents can be validated using these Kind of Action values.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
CCR1329	Adhoc	Program

14.0 Number 1330

Contract Mods with Kind of Action 16 cannot be queried or updated.

Description of Change

A contract mod can no longer be added with a Kind of Action of 16. The user can only create contract delivery order mods in the contract delivery order module.

Records that currently exist in AMS which can be queried through the browse feature, but cannot be queried or updated through the Administration Menu options can now be deleted through option 20 (Delete a Contract Modification) on the Administration Menu.

Functional Impact

Contract mods with Kind of Action 16 will only be allowed to be added in the contract delivery order module.

Existing records that can be queried through the browse feature but cannot be queried or updated through the Administration Menu can be deleted through option 20 (Delete a Contract Modification) of the Administration Menu.

Validation Procedures

1. Verify that a contract modification with a Kind of Action of 16 cannot be added using option 1 on the Contract Administration Menu.
2. Verify that a delivery order can be added to a contract using option 1 of the Contract Delivery Order Menu.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
QCB00	Contract Administration Menu	Program
QCB50	Add Contract Mod	Program

15.0 Number 1333

Change conditions which allow CIC NUM and CPOP on small purchase orders to be blank.

Description of Change

Beginning with Release 7.9.0, CIC NUM and CPOP VID are required for small purchase orders. It has been requested that CIC NUM and CPOP VID not be required for existing small purchase orders that are being closed out. It was also requested that these small purchase orders not be reported.

One of the centers requested changing the conditions which allow the CIC NUM and CPOP VID fields to be blank because not all centers use all the fields required in the previous logic.

The conditions that indicate closeout status to disable required entry of CIC NUM and CPOP VID on small purchase orders are now as follows:

One or both of the following conditions are met:

- Physical Completion Date has been entered and is less than 10-01-2003
- PO Termination Date has been entered and is less than 10-01-2003

If either of these conditions are met, then

- CIC NUM is not required.
- CPOP VID is not required.
- The REPORTED flag will not change when changes are made to the purchase order.
- The VALIDATED flag will not change when changes are made to the purchase order.

Functional Impact

Conditions that indicate closeout status to disable the required entry of CIC NUM and CPOP VID have changed.

Validation Procedures

1. Verify that a small purchase order does not require a CIC NUM or a CPOP VID when one or both of the following conditions are met:
 - Physical Completion Date has been entered and is less than 10-01-2003
 - PO Termination Date has been entered and is less than 10-01-2003
2. Verify that a small purchase order requires a CIC NUM or a CPOP VID when both of the following conditions are not met:
 - Physical Completion Date has been entered and is less than 10-01-2003
 - PO Termination Date has been entered and is less than 10-01-2003
3. When running FACS, verify that the changes/corrections to existing small purchase order records are—or are not—reported, based upon the conditions existing for the small purchase order. (See Section 20 for validation procedures for FACS related changes.)

MODULE ID
QSA17

MODULE NAME
Small Purchase Order Update – Page 1

TYPE
Program

16.0 Number 1334

Change program code to reduce the number of records read during a file look-up on the PR-X-Reference File. This change was requested to keep some sites from exceeding their Adabas MADIO parameters.

Description of Change

Program code was changed to reduce the number of records read during a file look-up on the PR-X-Reference File.

Functional Impact

Program should run correctly without producing error caused by exceeding Adabas MADIO parameters.

Validation Procedures

1. Update an existing contract that does not have a Prime PR Number. Go to Page 2 of that contract. If the error does not occur, this validation test is successful.
2. Update a contract that does have a Prime PR Number. Make sure that the RCV TO AWR LD-TIME and SOL TO AWD LD-TIME fields are calculated correctly.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
QCA80	Contract 507 Edit Driver	Program
QENCA25	Calculate Lead Times	Subprogram

17.0 Number 1336

Website URL should be optional unless IDV-TYPE-Code is 'A' or 'F'.

Description of Change

Website URL is only required if the value in the Type of IDV field is an 'A' or an 'F'. Otherwise, it is optional.

The Who Can Use field should be mandatory if the value in the Type of IDV field is an 'A', 'B', 'D', 'E', or 'F'. It should not be required if the value in the Type of IDV field is a 'C'.

Functional Impact

Website URL is not required for all contracts where the Type of IDV field is filled. It is only required if the Type of IDV field is an 'A' or an 'F'.

Who Can Use is required for all contracts where the Type of IDV field is an 'A', 'B', 'D', 'E', or 'F'. It is not required if the Type of IDV field is a 'C'.

Validation Procedures

1. Verify that the Web Site URL field is not allowed to be blank when adding or updating a contract with Type of IDV equal to 'A' or 'F'.
2. Verify that the Web Site URL field is allowed to be blank when adding or updating a contract where Type of IDV is not equal to 'A' or 'F'.
3. Verify that the Web Site URL field is allowed to be filled when adding or updating a contract where Type of IDV is not equal to 'A' or 'F'.
4. Verify that the Who Can Use field is not allowed to be blank when adding or updating a contract where Type of IDV is equal to 'A', 'B', 'D', 'E', or 'F'.
5. Verify that the Who Can Use field is allowed to be blank when adding or updating a contract where Type of IDV is equal to 'C'.
6. Verify that the Who Can Use field is allowed to be filled when adding or updating a contract where Type of IDV is equal to 'C'.
7. Verify that an error message is displayed if the Type of IDV field is changed from a 'B', 'C', 'D', or 'E' to an 'A' or an 'F' and the Web Site URL field is blank.
8. Verify that an error message is displayed if the Type of IDV field is changed from a 'C' to another valid Type of IDV value and the Who Can Use field is blank.

MODULE ID

QCA21

QCA23

MODULE NAME

Contract Award Update – Page 1

Contract Award Update – Page 3

TYPE

Program

Program

18.0 Number 1337

Add entry to Fee for Use of Service Codes Table.

Description of Change

An entry for 'NO' (No Fee) was added to the Fee for Use of Service Codes Table (Table 82).

Functional Impact

An additional valid entry is available for use in the Service Fee field.

Validation Procedures

1. Verify that Table 82 (Fee for Use of Service Codes) has 4 entries. They should be as follows:

KEY	RESULT
=====	=====
FIX	FIXED
NO	NO FEE
RVA	RANGE – VARIES BY AMOUNT
RVO	RANGE – VARIES BY OTHER FACTOR

2. Verify that a contract will validate using the value 'NO' in the Service Fee field.

MODULE ID
CCR1337A

MODULE NAME
Adhoc

TYPE
Program

19.0 Number 1338

Purchase Card as Payment Indicator is needed on Small Purchase Order Screen.

Description of Change

Purchase Card as Payment Indicator was added to page 2 of the Small Purchase Order Update and to page 2 of the Small Purchase Order Query.

Functional Impact

The Purchase Card as Payment Indicator will now be captured for Small Purchase Orders.

Validation Procedures

1. Using the Update option of the Purchase Order Award Menu, go to page 2 of a small purchase order that has been validated.
2. Verify that the Purch Card for Payment field is blank. Press <Enter>. The following error message should be displayed: "PURCH CARD FOR PAYMENT MUST BE Y OR N. PLEASE CORRECT."
3. Enter an 'X' in the Purch Card for Payment field. Press <Enter>. The following error message should be displayed: "PURCH CARD FOR PAYMENT MUST BE Y OR N. PLEASE CORRECT."
4. Verify that an 'N' and a 'Y' are accepted as valid values in the Purch Card for Payment field.
5. Using the Query option of the Purchase Order Award Menu, go to page 2 of the small purchase order being used. Verify that the Purch Card for Payment field contains the value entered in Step 4 above.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
QCA25	Contract Award Update – Page 2	Program
QEMSA18	Map 1 for QSA18	Map
QEMSA18A	Map 2 for QSA18	Map
QEMSA19	Map 1 for QSA19	Map
QSA18	Small Purchase Order Update – Page 2	Program
QSA19	Small Purchase Order Query – Page 2	Program
QSA25	Large Purchase Order Update – Page 2	Program

20.0 Number 1340

Change dollar amount threshold which designates large or small Purchase Order.

Description of Change

A large purchase order will be one that has a Price/Est-Cost of greater than \$25,000. A small purchase order will be one where the Price/Est-Cost is less than or equal to \$25,000.

Functional Impact

A purchase order with a Price/Est-Cost of exactly \$25,000 will now be considered a small purchase order.

Validation Procedures

1. Verify that a purchase order with a Price/Est-Cost of exactly \$25,000 is treated as a small purchase order in the following processes:
 - Purchase Order Add
 - Purchase Order Update
 - Purchase Order Query
 - Purchase Order Price/Cost Add
 - Purchase Order Price/Cost Update
 - Purchase Order Price/Cost Query
 - Purchase Order Modification Add
 - Purchase Order Modification Update
 - Purchase Order Modification Query
 - Purchase Order Modification Price/Cost Add
 - Purchase Order Modification Price/Cost Update
 - Purchase Order Modification Price/Cost Query
 - Browse by Referenced Contract Number
 - PO Browse Options
 - PO Number Sequence
 - Organization Code Sequence
 - Award Date Sequence
 - Physical Completion Date Sequence
 - Kind of Action Sequence
 - Administrator Code
 - Required Delivery Date Sequence
 - PMDR Reports
 - Lines 010 – 030
 - Line 090
 - PR to Document Cross Reference
 - Validation
2. Verify that a purchase order with a Price/Est-Cost of \$24999.99 is treated as a small purchase order in the processes listed in step 1.
3. Verify that a purchase order with a Price/Est-Cost of \$25000.01 is treated as a large purchase order in the processes listed in step 1.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
NAXBOAPA	Browse Referenced Contract Number	Program
NAXMPCNA	PR Closeout Error Messages	Subprogram
QENSA01	Retrieve Large/Small PO Indicator	Subprogram
QENT59	Table Lookup for Emerging Small Business	Subprogram
QEWBV10A	Query Purchase Order	Subprogram
QGR08	FACS Trial Run – Purchase Orders	Program
QGR15	FACS Submission for Grants	Program
QGR54	PMDR Report – Lines 010 - 030	Program
QGR58	PMDR Report – Line 090	Program
QPX01	PR to Document Cross Reference	Program
QSA15	PO Add	Program
QSA16	Small Purchase Order Query – Page 1	Program
QSA17	Small Purchase Order Update – Page 1	Program
QSA18	Small Purchase Order Update – Page 2	Program
QSA21	Large Purchase Order Update – Page 1	Program
QSA25	Large Purchase Order Update – Page 2	Program
QSA61	PO File Browse by PO Number	Program
QSA62	PO File Browse by Organization Code	Program
QSA63	PO File Browse by Award Date	Program
QSA64	PO File Browse by Compl Date	Program
QSA65	PO File Browse by Kind of Action	Program
QSA67	PO File Browse by Administrator Code	Program
QSA68	PO File Browse by Required Delivery Date	Program
QSA80	PO 507 Edit Driver	Program
QSB00	PO Administration Menu	Program
QSB33	Cost Tracking – Financial Data for Basic Purchase Order Add	Program
QSB34	Cost Tracking – Financial Data for Basic Purchase Order Update	Program
QSB35	Cost Tracking – Financial Data for Purchase Order Modification Add or Update	Program
QSB37	Cost Tracking – Financial Data for Basic Purchase Order Inquiry	Program
QSB38	Cost Tracking – Financial Data for Purchase Order Modification Query	Program

21.0 Number 1341

Delivery Order Completion Dates should come from composite record.

Description of Change

For Contract DO's created and updated in the contract DO module, the completion date, the ultimate completion date, and the physical completion date on the mod record generated when the DO was first created (this is the record reported in FACS) will be updated with the current composite record values.

For PO DO's created and updated in the PO DO module, the final invoice paid date (date reported in FACS), the ultimate completion date, and the physical completion date on the mod record generated when the DO was first created (this is the record reported in FACS) will be updated with the current composite record values.

Functional Impact

When a Contract Delivery Order is created, the PHYS COMPL DATE, the COMPL DATE, and the ULTIMATE COMPL DATE will be pulled from the composite contract record.

When a Purchase Order Delivery Order is created, the PHYS COMPL DATE, the FINAL INVOICE PAID DATE, and the ULTIMATE COMPL DATE will be pulled from the composite purchase order record.

Validation Procedures

1. Add and validate a contract.
2. Add some contract modifications to this contract and validate them.
3. Add a delivery order to this contract.
4. Using option 18 (Query Composite Contract) of the Contract Administration Menu, make note of the PHYS COMPL DATE, the COMPL DATE, and the ULTIMATE COMPL DATE.
5. Using option 7 (Query Composite Delivery Order) of the Contract Delivery Order Menu, verify that the PHYS COMPL DATE, the COMPL DATE, and the ULTIMATE COMPL DATE are the same as the dates from the Contract Composite from step 4.
6. Add and validate a purchase order.
7. Add some purchase order modifications to this purchase order and validate them.
8. Add a delivery order to this purchase order.
9. Using option 13 (Query Composite PO) of the PO Administration Menu, make note of the PHYS COMPL DATE, the FINAL INVOICE PAID DATE, and the ULTIMATE COMPL DATE.
10. Using option 7 (Query Composite PO Delivery Order) of the Purchase Order Delivery Order Menu, verify that the PHYS COMPL DATE, the FINAL INVOICE PAID DATE, and the ULTIMATE COMPL DATE are the same as the dates from the Purchase Order Composite from step 9.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
NADO01PA	Add/Update Delivery Orders	Program
NADO07MA	Map for NADO07PA	Map
NADO07PA	Query Composite Delivery Order	Program
QSDO01PA	Add/Update PO Delivery Orders	Program
QSDO07MA	Map for QSDO07PA	Map
QSDO07PA	Query Composite PO Delivery Order	Program

22.0 PDWS Related Changes

Where necessary, changes were made to the PDWS extracts to incorporate changes requested that are contained within AMS Release 8.0.

Description of Change

The Accession-Num field was expanded from A15 to A21. The Princ-Inves-1, Princ-Inves-2, and Princ-Inves-3 fields were expanded from A15 to A41. The Fee-Paid-For-Use-Of-IDV-Amt field was added to the extracts for basic purchase orders, composite purchase orders, and purchase order modifications.

Due to these changes being made in the PDWS files, the PDWS JCL was modified. The 'before' and 'after' record lengths of the dataset are shown below.

	<u>LRECL</u> <u>BEFORE</u>	<u>LRECL</u> <u>AFTER</u>
CONTRACTS		
put 'MSIRM.AMS0DT.CONTR.BASIC' conbas.txt	1793	1799
put 'MSIRM.AMS0DT.CONTR.COMP' concomp.txt	1793	1799
put 'MSIRM.AMS0DT.CONTR.MODS' conmod.txt	1793	1799
GRANTS		
put 'MSIRM.AMS0DT.GRANT.BASIC' grntbas.txt	1035	1119
put 'MSIRM.AMS0DT.GRANT.COMP' grntcomp.txt	1035	1119
put 'MSIRM.AMS0DT.GRANT.MODS' grntmod.txt	1035	1119
put 'MSIRM.AMS0DT.CNTR1356.DATA' contract1356.txt	1000	1084
PURCHASE ORDERS		
put 'MSIRM.AMS0DT.PURORDER.BASIC' pobas.txt	1321	1341
put 'MSIRM.AMS0DT.PURORDER.COMP' pocomp.txt	1321	1341
put 'MSIRM.AMS0DT.PURORDER.MODS' pomod.txt	1321	1341

Functional Impact

PDWS was changed to extract the new field and the new field lengths of the existing fields that were expanded.

Validation Procedures

1. To validate the changes made to PDWS, run the PDWS extract. A full load of AMS data must be submitted. Technical personnel will need to verify that the AMS data was loaded successfully into their center's PDWS database. Testing will need to be coordinated with the NAIS (NASA Acquisition Internet Service) team at Marshall Space Flight Center.
2. When running the PDWS extracts:
 - For CCR1314, verify that the ACCESSION-NUM field has been expanded to 21 bytes in the extracts for basic contracts, composite contracts, contract modifications, basic purchase orders, composite purchase orders, purchase order modifications, basic grants, composite grants, grant supplements, and contract 1356 data.

- For CCR1318, verify that the FEE-PAID-FOR-USE-OF-IDV-AMT field has been added to the extracts for basic purchase orders, composite purchase orders, and purchase order modifications.
- For CCR1319, verify that the PRINC-INVES-1, PRINC-INVES-2, and the PRINC-INVES-3 fields have been expanded to 41 bytes in the extracts for basic grants, composite grants, grant supplements, and contract 1356 data.

23.0 FACS Related Changes

Description of Change

The FACS dataset that is sent to Headquarters on a monthly basis will be restructured to add the new regulatory field and to extend the fields that have been expanded.

**** IMPORTANT ****

These changes will affect the overall record length increasing it from 1046 to 1109 in any Job Control Language referencing the FACS History file and the FACS transmission file. The following is an example of the new DCB statement:

// DCB=(RECFM=FB,LRECL=1109,BLKSIZE=4436)

Functional Impact

The record length of the FACS history dataset and the FACS transmission dataset was increased from 1046 bytes to 1109 bytes to allow the new fields to be included in the FACS submission to Headquarters. The new FACS layout is included below the validation procedures for the FACS process.

Validation Procedures

1. For CCR1315, verify that the Physical Completion Date Indicator field is reported in column 133 and that the Reason Not Small Business field is reported in columns 134 to 135.
2. For CCR1317, verify Contract Financing, Mid-Range Indicator, and Best Value Indicator are no longer being populated in the FACS output. These were in positions 378, 510, and 523.
3. For CCR1318, verify that the FEE-PAID-FOR-USE-OF-IDV-AMT field is reported in columns 1094 to 1104 for purchase order records. Contracts and grants should have blanks in those positions.
4. For CCR1319, verify that the PRINC-INVES-1 field is reported in columns 991 to 1031 and that the PRINC-INVES-2 field is reported in columns 1032 to 1072.
5. For CCR1328, verify that the Field of Science or Engineering field is reported in columns 136 to 137 for contract records with 1356 data. The field should not appear on contract mod records.
6. For CCR1333, verify that the changes/corrections to existing small purchase order records are—or are not—reported, based upon the conditions existing for the small purchase order

FROM**Main Menu****General Reports Menu****FACS Tape Recovery****CHOOSE OPTION****7****3**

Execute the FACS Recovery option in the **BATCH** environment to reset all flagged records from the last FACS run. The default dates on the screen may be used. Make a note of the Rec Reported Date as this will be used in subsequent steps. Verify the program executed successfully. To perform this task, select the core menu options or run using your site unique JCL.

FROM**Main Menu****General Reports Menu****FACS Contract Lead Time Submission****CHOOSE OPTION****7****4**

Execute the FACS Lead Time option. Enter the Rec Reported Date used in the previous step. The default correction cutoff date may be used or use the correction cutoff date from the last FACS run. Verify the program executed successfully. Compare the report to the report from the last FACS run. The results should be the same with the exception that the new fields should now be reported. To perform this task, select the core menu options or run using your site unique JCL.

FROM**Main Menu****General Reports Menu****FACS Dataset Submission****CHOOSE OPTION****7****2**

Execute the Monthly FACS Submission option for a FACS Trial Run. Enter the Rec Reported Date used in the previous step. The default correction cutoff date may be used or use the correction cutoff date from the last FACS run. **Ensure the Trial Run option is chosen.** Verify all programs executed successfully. Compare the reports to the reports from the last FACS run. (The last report can be from actual FACS run.) The results should be the same with the exception that the new fields should now be reported. To perform this task, select the core menu options or run using your site unique JCL.

FROM**Main Menu****General Reports Menu****FACS Dataset Submission****CHOOSE OPTION****7****2**

Execute the Monthly FACS Submission option for an actual FACS run. (The dataset will not be sent to HQ unless you send it.) Enter the Rec Reported Date used in the previous step. The default correction cutoff date may be used or use the correction cutoff date from the last FACS run. **Ensure the Produce FACS Dataset option is chosen.** Verify all programs executed successfully. Compare the reports to the reports from the last FACS run. The results should be the same with the exception that the new fields should now be reported. To perform this task, select the core menu options or run using your site unique JCL.

The following table was prepared to assist you in testing the FACS history dataset conversion (CCR1317A), the FACS Contract Lead Time Report, the FACS Trial Run Submission, and the FACS Monthly Submission. It details the new FACS file layout.

507 Number	507 Field Name	AMS Database Field Name	Data Type & Length	Work file Position
	Record-Type	Not from file - initialized to C1	A2	1 to 2
1	Contract-Num	CONTRACT-NUM	A11	3 to 13
116	Modification Prefix	MOD-PREFIX	A1	14
117	Modification Number	MOD-NUM	A4	15 to 18
	AIN	CNTRCT-ACNT-INSTLTN-NMBR	A2	19 to 20
	Description	Not from file - initialized to A & not chgd	A1	21
	New or Correction Record	Not from file - assigned to N or C	A1	22
8	Procuring Installation Number	PIN	A2	23 to 24
6	CIC Number	CIC-NUM from AMS-CIC-FILE	A7	25 to 31
9	Contractor Name	CONTRACTOR-NAME from AMS-CIC-FILE	A30	32 to 61
10	Contractor Division	CONTRACTOR-DIVISION-NAME from AMS-CIC-FILE	A20	62 to 81
16	Place of Performance City/State	POP-CITY-NAME (A24), POP-STATE-CODE (A2) from AMS-CIC-FILE	A26	82 to 107
17	POP Zip Code	POP-ZIP-CODE from AMS-CIC-FILE	A9	108 to 116
18	Contract Award Date	AWARD-DATE	N8	117 to 124
80	Current Completion Date	COMPL-DATE	N8	125 to 132
82	Physical Completion Date Ind	Value will be Y if PHYS-COMPL-DATE > 0, otherwise it will be blank	A1	133
75	Reason Not Small Business	REASON-NOT-SM-BUS	N2	134 to 135
	Field of Science/Engineering	FIELD-SCI/ENGR	N2	136 to 137
	FILLER		A3	138 to 140

20	Procurement Placement Code	PPC	A2	141 to 142
21	Kind of Action	KIND-OF-ACTION	A2	143 to 144
23	Contractor Type	CONTRACTOR-TYPE	A2	145 to 146
25	Award Outside US	AWARD-OUTSIDE-US	A1	147
26	Extent of Competition	EXT-COMPETITION	A1	148
111	Estimated Cost or Fixed Price	PRICE/EST-COST	N11	149 to 159
112	Fee	TOT-PROFIT/FEE	N11	160 to 170
110	Total Contract Value Including Options	TOT-CONT-VAL-INCL-OPTIONS from record type 2 (base) and record type 1 (composite) in that order	N11, N11	Base 171 to 181, Comp 182 to 192
27	Product or Service Code	TYPE-SERV/PROD	A4	193 to 196
22	Type of IDV	IDV-TYPE-CODE	A1	197
113	Action Obligation	OBLIG	N11	198 to 208
30	Bundling of Contract Requirements	BUNDLING-IND	A1	209
72	COTR Name	COTR-NAME from GRANT-FILE (1356 data)	A15	210 to 224
32	Description of Contract	CONTRACT-DESC(1) & (2) (50 bytes each)	A100	225 to 324
33	CICA Applicability	CICA-APPLICABILITY	A1	325
36	Pre-Award Synopsis Requirement	PROCUR-SYNOP	A1	326
35	Contract Type	TYPE-CONTRACT	A2	327 to 328
40	Number of Offers Received	NUM-OFFERS-RECV	A3	329 to 331
41	Solicitation Procedures	SOLICITATION-PROCEDURES	A1	332
42	Authority for Other than Full and Open Competition	AUTHORITY-OTHER-THAN-OPEN	A1	333
43	Labor Statutes	LABOR-STATUTES	A1	334
45	North American Industry Classification System (NAICS)	NAICS-CODE	A6	335 to 340
46	Contract Administration Delegated	DELEG-CONT-ADMINISTRATION	A1	341
83	Other Preference Programs	OTHER-PREFERENCE-PROGRAM	A1	342
48	Advisory/Assistance Services Contract	ADV/ASST-CONTRACT	A1	343
49	Support Services Type Contract	SUPPORT-SERVICE-CONTRACT	A1	344

50	Cost Accounting Standards Clause	COST-ACCT-STAND-CLAUSE	A1	345
51	New Technology or Patent Rights Clause	NEW-TECHNOLOGY/PATENT-RIGHTS	A1	346
52	Subcontracting Program Plan	SUBCONTRACT-PROG-PLAN	A1	347
53	SBIR Award	SBIR-AWARD	A1	348
24	Women-Owned Business	WOMAN-OWNED-SMALL-BUSINESS	A1	349
55	Contract for Foreign Gov't or International Organization	CONT-FOREIGN-GOVT/INTL-ORG	A1	350
56	MRR: Cost and Performance Reporting	COST-PERF-REPT/NF533	A1	351
57	Property Financial Reporting	PROP-SPACE-HDWR-REPT/NF1018	A1	352
58	Commercial Item Acquisition	COMMERCIAL-ITEM-ACQUISITION	A1	353
65	Ethnic Type	ETHNIC-GROUP	A1	354
38	Percent Performance Based	PERFORMANCE-BASED-CONTRACTING	A1	355
59	Country of Manufacturer	COUNTRY-OF-MANUFACTURER	A2	356 to 357
54	STTR Award	CNTRCT-STTR-AWARD-CODE	A1	358
60	Demonstration Test Program	DEMONST-TEST-PROGRAM	A1	359
61	Emerging Small Business	EMERGING-SM-BUS	A1	360
62	Emerging Small Business Reserve Award	EMERGING-SM-BUS-RES-AWD	A1	361
63	Size of Small Business	SIZE-OF-SM-BUS	A1	362
46a	Blanket-Delegation	BLANKET-DELEGATION	A11	363
46b	Deleg-Post-Awd-Audit	DELEG-POST-AWD-AUDIT	A1	364
46c	Deleg-Security	DELEG-SECURITY	A1	365
46d	Deleg-Cost-Acct-Standards	DELEG-COST-ACCT-STANDARDS	A1	366
46e	Deleg-Prop-Admin	DELEG-PROP-ADMIN	A1	367
46f	Deleg-Transportation	DELEG-TRANSPORTATION	A1	368
46g	Deleg-Quality-Assurance	DELEG-QUALITY-ASSURANCE	A1	369

46h	Deleg-Consent-ToSubcontract	DELEG-CONSENT-TO-SUBCONTRACT	A1	370
46i	Deleg-Closeout	DELEG-CLOSEOUT	A1	371
46j	Deleg-Engineering/Prod-Surv	DELEG-ENGINEERING/PROD-SURV	A1	372
46k	Deleg-Other	DELEG-OTHER	A1	373
64	Value Engineering Clause	VALUE-ENGINEERING-CLAUSE-IND	A1	374
99	DOD Claimant Program Code	DOD-CLAIMANT-PROGRAM-CODE	A3	375 to 377
79	Filler	(Hold position for CNTRCT-MID-RNG-IND on History file)	A1	378
105	Fee for Use of Service	USE-OF-SERV-FEE-CODE	A3	379 to 381
84	Hubzone Small Business Concern	HBZ-SML-BUS-CNCRN-IND	A1	382
85	Hubzone Program	HBZ-PGM-CODE	A1	383
87	Small Disadvantaged Business	SDB-PGM-CODE	A1	384
88	Hubzone Price Evaluation Percent Difference	HBZ-PRICE-EVAL-PREF-DIFF-PCT	A2	385 to 386
89	SDB Price Evaluation Adjustment Percent Difference	SDB-PRICE-EVAL-ADJ-DIFF-PCT	A2	387 to 388
86	Veteran Owned Small Business Award	VOSB-CNCRN-CODE	A1	389
115	Multiple Award Contract Fair Opportunity	MACFO-CODE from PURCHASE-ORDER-FILE (only use for POs)	A1	390
90	EPA Designated Products	EPA-PRDCT-CODE	A1	391
91	Recoverd Materials Clause	RCVRD-MTRL-CLAUSES-CODE	A1	392
95	Funding Agency	FA-CODE	A4	393 to 396
96	Funding Agency DODAAC	FA-DODAAC-CODE	A6	397 to 402
94	Funding Agency - Commercial Item	FA-CMRCL-ITEM-CTGRY-CODE	A1	403
97	Funding Agency - Reason for Purchase	FA-PURCHASE-REASON-CODE	A1	404
98	Funding Agency - Clinger-Cohen Act	FA-CLINGER-COHEN-ACT-IND	A1	405
2	Offeror's Proposal Number	CNTRCT-PRPSL-NMBR	A18	406 to 423

12	Contractor Address City/State	CONTRACTOR-CITY-NAME (A24) CONTRACTOR-STATE- CODE (A2) Get from AMS-CIC- FILE	A26	424 to 449
28	Solicitation Issue Date	SOLICITATION-ISSUE-DATE	N8	450 to 457
29	Solicitation Identifier	SOLICITATION-ID	A50	458 to 507
19	Multiple or Single Award IDC	AWRD-IDC-CODE	A1	508
37	Synopsis Waiver Exception	SYNOP-WAIVER-EXCEPTION- IND	A1	509
44	Filler	(Hold position for CONTRACT- FINANCING-CODE on History file)	A1	510
47	Multiyear Contract	MULTIYEAR-CONTRACT-IND	A1	511
66	Effective Date	EFFECTIVE-DATE	N8	512 to 519
68	Equipment Code	EQUIP-CODE	A1	520
76	A-76 (FAIR Act) Action	A-76-FAIR-ACT-IND	A1	521
77	Purchase Card as Payment Method	PURCHASE-CARD-AS-PYMT- IND	A1	522
78	Filler	(Hold position for Cntrct-Best- Value-Ind on History file)	A1	523
81	Ultimate Completion Date	ULTIMATE-COMPL-DATE	N8	524 to 531
92	Major Program	MAJOR-PROGRAM	A80	532 to 611
31	Referenced Contract No	REFERENCED-CONTRACT- NMBR	A25	612 to 636
93	Program Acronym	PGM-ACRONYM	A25	637 to 661
100	Indefinite Delivery Vehicle Last Date to Order	IDV-LAST-DATE-TO-ORDER	N8	662 to 669
101	Other Statutory Authority	OTHER-STATUTORY- AUTHORITY-CODE	A1	670
102	Web Site URL	WEB-SITE-URL	A80	671 to 750
103	Who Can Use	WHO-CAN-USE	A200	751 to 950
104	Maximum Order Limit	MAX-ORDER-LIMIT	A20	951 to 970
106	Fixed Fee Value	FIXED-FEE-VALUE	A4	971 to 974
107	Fee Range Lower Value	FEE-RANGE-LOWER-VALUE	A4	975 to 978

108	Fee Range Upper Value	FEE-RANGE-UPPER-VALUE	A4	979 to 982
114	Funded Thru Date	FUNDED-THRU	N8	983 to 990
	Primary Principal Investor	PRINC-INVES-1 from GRANT-FILE (1356 data)	A41	991 to 1031
	Secondary Principal Investor	PRINC-INVES-2 from GRANT-FILE (1356 data)	A41	1031 to 1072
	Cotr Alternate	COTR-ALTERNATE from GRANT-FILE (1356 data)	A15	1073 to 1087
	FILLER	(Hold positions for Cntrct-Rcv-Awrd-Lt-Cnt and Cntrct-Slcttn-Awrd-Lt-Cnt on History file)	N6	1088 to 1093
120	Fee Paid for Use of IDV	FEE-PAID-FOR-USE-OF-IDV-AMT from PURCHASE-ORDER-FILE (only use for POs)	N11	1094 to 1104
	Submission-Date		A4	1105 to 1108
	Fatal-Switch		A1	1109

APPENDIX D
INSTALLATION INSTRUCTIONS
FOR AMS SOFTWARE RELEASE 8.0

INSTALLATION INSTRUCTIONS AND CHECKLIST FOR AMS SOFTWARE RELEASE 8.0

Introduction

Release information:

System Name: AMS
Release Number: 8.0
Release Date: February 27, 2004
Effective Date: February 27, 2004

The following dataset is located on the transient storage DASD volumes under the following data set name:

- xxMOV.AMS.PROD.R800.R0204.SRC
- xxMOV.AMS.PROD.R800.R0204.PRD
- xxMOV.AMS.PROD.R800.R0204.TBL084
- xxMOV.AMS.PROD.R800.R0204.PDWSJCL

Where "xx" is replaced by the appropriate NASA Center designation.

AR - ARC
DF - DFRC
GS - GSFC
HQ - HQ
J5 - JSC
LA - LaRC
LE - GRC (Glenn)
KS - KSC
MS - MSFC
SS - SSC

In case of installation problems, contact the NACC Technical Services Center (Identify yourself as SESAAS & AMS.)

Telephone: (256) 544-6673
Email: charmaine.styles-oscarson@msfc.nasa.gov
FAX: (256) 544-1836

Installation Sequence

The sequence in which the installation of this release should occur is provided in the following list. A checklist is provided in Section 9.0 to assist in tracking the installation of this release.

- 1.0 Back Up Existing Data
- 2.0 Copy Source
- 3.0 Pre-Predict Data Conversion
- 4.0 Install Predict
- 5.0 Catalog Source Code
- 6.0 Post-Predict Data Conversion
- 7.0 Release-Specific Procedures
- 8.0 Local JCL Mods
- 9.0 Installation Checklist

1.0 Back Up Existing Data

It is advisable to back up all AMS files as a precautionary measure prior to installation.

2.0 Copy Source

2.1 Copy Source Code

Load the AMS library from dataset xxMOV.AMS.PROD.R800.R0204.SRC. Using NATLOAD, the programs will be loaded to the application library named LAMSPROD, replacing any existing programs of the same name. Verify the modules loaded (output from the batch NATLOAD job) against the VDD list of source code modifications.

The source module counts included in this release are listed below:

Natural Source Modules by type	
GLOBAL DATA AREA	0
LOCAL/PARAM DATA AREA	9
MAPS	34
HELP ROUTINES	0
SUBROUTINES	0
SUBPROGRAMS	21
PROGRAMS	101
COPYCODE	0
TEXT	0
PROCESS	0
MISCELLANEOUS OBJECTS	0
Total:	165

2.2 List of Source Code Modifications

The following are the modules added, modified and deleted.

Added Modules:

There are no modules added in this release.

Changed Modules:

1. NACB50NA	Edit Checks for QCB50 and QCB51	Subprogram
2. NACC01MA	Map for QCC20 and QCC22	Map
3. NACC22MA	Map for QCC22	Map
4. NADO01PA	Add/Update Delivery Orders	Program
5. NADO07MA	Map for NADO07PA	Map
6. NADO07PA	Query Composite Delivery Order	Program
7. NAGR01PA	FACS Lead Time Report	Program
8. NAPRUHNA	Update Site Unique Files with PR Data	Subprogram
9. NAXBOAPA	Browse Referenced Contract Number	Program
10. NAXMPCNA	PR Closeout Error Messages	Subprogram
11. NAXPA1NA	Center Unique PR File Add	Subprogram
12. QCA20	Contract Award Add – Page 1	Program
13. QCA21	Contract Award Update – Page 1	Program
14. QCA23	Contract Award Update – Page 3	Program
15. QCA25	Contract Award Update – Page 2	Program
16. QCA25L	Local Data Area for QCA25	Local
17. QCA27	Contract Award Query – Page 2	Program
18. QCA28	Contract Award Query – Page 3	Program
19. QCA30	Contract Case (Form 1356) Add/Update	Program
20. QCA35	Contract Case (Form 1356) Query	Program
21. QCA80	Contract 507 Edit Driver	Program
22. QCA85	Form 507 Edit Module	Program
23. QCA87	Contract 507 Edit Message Display	Program
24. QCA88	Table 507 Display for Error Help	Program
25. QCA89	PPC Edit Value Display for 507 Error Help	Program
26. QCB00	Contract Administration Menu	Program
27. QCB50	Add Contract Mod	Program
28. QCC20	Contract Closeout Processing Options	Program
29. QCC22	Update Closeout Data for a Contract	Program
30. QCFACSPA	Parameter Data for FACS	Parameter
31. QCFACSPB	Parameter Data for FACS	Parameter
32. QCGXPDWS	PDWS Extract for Contracts	Program
33. QEMCA25	Map 1 for QCA25	Map
34. QEMCA25A	Map 2 for QCA25	Map
35. QEMCA25B	Map 3 for QCA25	Map
36. QEMCA27	Map for QCA27	Map
37. QEMPA01A	Map 1 for QPA01A	Map
38. QEMPA01B	Map 1 for QPA01B	Map
39. QEMPA01C	Map 2 for QPA01A	Map
40. QEMPA01D	Map 3 for QPA01A	Map
41. QEMPA01E	Map 2 for QPA01A	Map
42. QEMPA01F	Map 3 for QPA01A	Map
43. QEMPU01	Map for QPU01	Map
44. QEMSA15	Map 1 for QSA15	Map
45. QEMSA15A	Map 2 for QSA15	Map

46. QEMSA16	Map for QSA16	Map
47. QEMSA17	Map 1 for QSA17	Map
48. QEMSA17A	Map 2 for QSA17	Map
49. QEMSA18	Map 1 for QSA18	Map
50. QEMSA18A	Map 2 for QSA18	Map
51. QEMSA19	Map for QSA19	Map
52. QEMSA21	Map 1 for QSA21	Map
53. QEMSA21A	Map 2 for QSA21	Map
54. QEMSA22	Map for QSA22	Map
55. QEMSB34	Map for QSB34	Map
56. QEMSB53	Map 1 for QSB53/QSB54	Map
57. QEMSB53A	Map 2 for QSB53	Map
58. QEMSB54A	Map 2 for QSB54	Map
59. QEMSB55	Map for QSB55	Map
60. QEMSB56	Map 1 for QSB56	Map
61. QEMSB56A	Map 2 for QSB56	Map
62. QEMSB57	Map for QSB57	Map
63. QENA25	Contract Update Validation Check	Subprogram
64. QENCA25	Calculate Lead Times	Subprogram
65. QENCA85	Exception Edit Subprogram	Subprogram
66. QENCN01	Composite Field Update (Grants)	Subprogram
67. QENCN02	Composite Field Update (Grants-Supp Num)	Subprogram
68. QENCPDWS	PDWS Extract for Contracts Composite Field Update	Subprogram
69. QENGR14B	Compare History Record for Updated Data	Subprogram
70. QENGR14C	Build FACS Record	Subprogram
71. QENGR15E	FACS Compare Subroutine – Unique Field Compare for PO's > = \$25K	Subprogram
72. QENGR15F	FACS Build Record Subroutine	Subprogram
73. QENNPDWS	PDWS Extract for Grants	Subprogram
74. QENPA01A	PR Edits	Subprogram
75. QENSA01	Retrieve Large/Small PO Indicator	Subprogram
76. QENSPDWS	PDWS Extract for PO's	Subprogram
77. QENT59	Table Lookup for Emerging Small Business	Subprogram
78. QEWBV10A	Query Purchase Order	Subprogram
79. QEWBV10B	Query Contract Award	Subprogram
80. QGM00	Session Initialization	Program
81. QGR07	Contract Trial FACS Report	Program
82. QGR08	FACS Trial Run – Purchase Orders	Program
83. QGR09	Trial Run FACS for Grants	Program
84. QGR14	Contract FACS Driver	Program
85. QGR15	FACS Submission for Grants	Program
86. QGR16	Create FACS Tape for Grant File	Program
87. QGR54	PMDR Report – Lines 010 – 030	Program
88. QGR58	PMDR Report – Line 090	Program
89. QGU01	Update System Generated Flags and Dates	Program
90. QGU02	Change the Document or Modification Number for a Contract, PO, or Grant	Program
91. QNA21	Grant Award Update Screen	Program
92. QNA30	Grant Case (Form 1356) Add/Update	Program
93. QNA35	Grant Case (Form 1356) Query	Program
94. QNB34	Cost Tracking – Financial Data for Basic Grant Update	Program

95. QNB50	Grant Supplement Addition	Program
96. QNB51	Grant Supplement Update	Program
97. QNB61	Grant Mod Deletion	Program
98. QNC10	Query Closeout Data for a Grant	Program
99. QNC20	Update Closeout Data for a Grant	Program
100. QNFACSL	Local Data Area for FACS	Local
101. QNGXPDWS	PDWS Extract for Grants	Program
102. QPA01A	Add a PR Record	Program
103. QPA01B	Add a PR Record (from a File)	Program
104. QPD01	Delete a PR Record	Program
105. QPQ01	Query a PR Record	Program
106. QPU01	Update a PR Record	Program
107. QPX01	PR to Document Cross Reference	Program
108. QSA00	PO Award Menu	Program
109. QSA15	PO Add	Program
110. QSA15L	Local Data Area for QSA15	Local
111. QSA16	Small Purchase Order Query – Page 1	Program
112. QSA17	Small Purchase Order Update – Page 1	Program
113. QSA17L	Local Data Area for QSA17	Local
114. QSA18	Small Purchase Order Update – Page 2	Program
115. QSA19	Small Purchase Order Query – Page 2	Program
116. QSA21	Large Purchase Order Update – Page 1	Program
117. QSA22	Large Purchase Order Query – Page 1	Program
118. QSA23	Large PO Award Update – Page 3	Program
119. QSA25	Large Purchase Order Update – Page 2	Program
120. QSA50	PO/PR Cross Reference Tracking Update	Program
121. QSA51	PO/PR Cross Reference Tracking Inquiry	Program
122. QSA61	PO File Browse by PO Number	Program
123. QSA62	PO File Browse by Organization Code	Program
124. QSA63	PO File Browse by Award Date	Program
125. QSA64	PO File Browse by Compl Date	Program
126. QSA65	PO File Browse by Kind of Action	Program
127. QSA67	PO File Browse by Administrator Code	Program
128. QSA68	PO File Browse by Required Delivery Date	Program
129. QSA80	PO 507 Edit Driver	Program
130. QSB00	PO Administration Menu	Program
131. QSB33	Cost Tracking – Financial Data for Basic Purchase Order Add	Program
132. QSB34	Cost Tracking – Financial Data for Basic Purchase Order Update	Program
133. QSB35	Cost Tracking – Financial Data for Purchase Order Modification Add or Update	Program
134. QSB37	Cost Tracking – Financial Data for Basic Purchase Order Inquiry	Program
135. QSB38	Cost Tracking – Financial Data for Purchase Order Modification Query	Program

136. QSB50	Large Purchase Order Mod Add – Page 1	Program
137. QSB51	Large Purchase Order Mod Update – Page 1	Program
138. QSB53	Small Purchase Order Mod Add – Page 1	Program
139. QSB54	Small Purchase Order Mod Update – Page 1	Program
140. QSB55	Small PO Modification Query – Page 1	Program
141. QSB56	PO Modification Update – Page 2	Program
142. QSB57	PO Modification Query – Page 2	Program
143. QSB58	Small PO Modification Update – Page 2	Program
144. QSD001PA	Add/Update PO Delivery Orders	Program
145. QSD007MA	Map for QSD007PA	Map
146. QSD007PA	Query Composite PO Delivery Order	Program
147. QSFACSL	Local Data Area for FACS	Local
148. QSFACSP	Parameter Data for FACS	Parameter
149. QSGXPDWS	PDWS Extract for PO's	Program

Deleted Modules:

1. QEMBV10B
2. QEVGF

Map
Local

The following programs were created for the source fixes for Release 7.9.0.

(They should only be executed if they were not run when the source fixes for Release 7.9.0 were distributed.)

1. CCR1310B Adhoc to add global variable +CENTER to Table 39
2. CCR1311D Adhoc to add Table 81—Other Statutory Authority Codes
3. CCR1311E Adhoc to add Table 82—Fee for Use of Service Codes
4. CCR1311G Adhoc to update table entries on various tables
5. CCR1311H Adhoc to rebuild Table 49—Contract Field Names and Numbers
6. CCR1311J Adhoc for FACS History File Conversion
7. CCR1311L Adhoc to update Kind of Action/IDV Type Code based on old Kind of Action/Center Kind of Action
8. CCR1321 Adhoc to update Table 50. Adds KOA 18, 19, and 20 wherever 01 and 03 already exist and 18, 19, and 20 do not
9. CCR1326 Adhoc to change existing Table 50 edits to 'A', 'B', 'C', or 'D' for Subcontract Program Plan
10. CCR1329 Adhoc to add KOA 97 and KOA 98 to Table 17 (Kind of Action Table)

(These programs should be deleted after you successfully install the release in production.)

The following programs were created for this release:

1. CCR1317A Adhoc for FACS History File Conversion (**NOTE:** If CCR1311J was not executed when Source Fix #1 for Release 7.9.0 was distributed, it must be executed before running CCR1317A.)
2. CCR1317B Adhoc to remove CONTRACT-FINANCING-CODE from Tables 49 and 50 and remove Table 80 – Contract Financing Codes
3. CCR1318 Adhoc to add Fee-Paid-For-Use-Of-IDV to Table 49 and to Predict AMS Table
4. CCR1320A Adhoc to add Table 84—Program Acronym – Major Program Table
5. CCR1337A Adhoc to add entry to Table 82 – Fee for Use of Services Table
6. TBLWK1XX Local Data Area for Adhocs

(These programs should be deleted after you successfully install the release in production.)

3.0 Pre-Predict Data Conversion

Not applicable with this release.

4.0 Install Predict

4.1 Data Dictionary Changes

This release includes the enhancements for version 8.0.0. Details for changes in this release can be found under paragraph 4.1.3, Physical File Changes, or by performing Predict reporting on the keyword AMS-8.0.0.

Use SYSDICBE to load the PREDICT modifications from the dataset
xxMOV.AMS.PROD.R800.R0204.PRD.

The following AMS Data Definition Modules (DDMs) should be generated after the PREDICT load is complete.

CONTRACT-CLOSEOUT-VIEW
CONTRACT-FILE
GRANT-CLOSEOUT-VIEW
GRANT-FILE
GRANT-1356-DATA-VIEW
PURCHASE-ORDER-FILE

4.1.1 Inventory of Objects

The object types and inventory listed below represent a comprehensive count of the PREDICT object modules for this release.

Predict Objects by Type:

Keyword	1
Standard Files	1
Conceptual Files	0
ADABAS Files and Views	17

4.1.2 Storage Considerations

The changes represented by this release should not affect storage requirements.

4.1.3 Physical File Changes

Use the ADABAS Utility commands listed below to build the JCL for the file changes. Cut and paste the ADADBS control statements directly into the TSO ISPF editor. Call RICK BISHOP (256)544-5352 with any questions or problems.

Modify the length for the following field:

CONTRACT-FILE

File # 202

Ty	L	Field ID	F	Length	Occ	D	U	DB	S
*	-	-----	*	-----	-----	*	*	--	*
	1	ACCESSION-NUM	A	15.0				HP	N
changed to									
	1	ACCESSION-NUM	A	21.0				HP	N

Using the following commands:

```
//DDKARTE DD *
ADADBS CHANGE FILE=202,FIELD=HP,LENGTH=21
/*
```

Modify the length for the following fields:

GRANT-FILE

File # 203

Ty	L	Field ID	F	Length	Occ	D	U	DB	S
*	-	-----	*	-----	-----	*	*	--	*
	1	ACCESSION-NUM	A	15.0				EZ	N
changed to									
	1	ACCESSION-NUM	A	21.0				EZ	N
	1	PRINC-INVES-1	A	15.0				CA	N
changed to									
	1	PRINC-INVES-1	A	41.0				CA	N
	1	PRINC-INVES-2	A	15.0				CB	N
changed to									
	1	PRINC-INVES-2	A	41.0				CB	N
	1	PRINC-INVES-3	A	15.0				C1	N
changed to									
	1	PRINC-INVES-3	A	41.0				C1	N

Using the following commands:

```
//DDKARTE DD *
ADADBS CHANGE FILE=203,FIELD=EZ,LENGTH=21
ADADBS CHANGE FILE=203,FIELD=CA,LENGTH=41
ADADBS CHANGE FILE=203,FIELD=CB,LENGTH=41
ADADBS CHANGE FILE=203,FIELD=C1,LENGTH=41
/*
```

Modify the length for the following field:

PURCHASE-ORDER-FILE

File # 204

Ty	L	Field ID	F	Length	Occ	D	U	DB	S
*	-	-----	*	-----	-----	*	*	--	*
	1	ACCESSION-NUM	A	15.0				HR	N

changed to

1	ACCESSION-NUM	A	21.0	HR	N
---	---------------	---	------	----	---

Using the following commands:

```
//DDKARTE DD *
ADADBS CHANGE FILE=204,FIELD=HR,LENGTH=21
/*
```

Add the following field:

PURCHASE-ORDER-FILE		File # 204				
Ty	L	Field ID	F	Length	Occ	D U DB S
*-	-	-----	*	-----	-----	* * -- *
	1	FEE-PAID-FOR-USE-OF-IDV-AMT	N	9.2		EU N

Using the following commands:

```
//DDKARTE DD *
ADADBS NEWFIELD FILE=204
ADADBS FNDEF='01,EU,11,U,NU'
/*
```

5.0 Catalog Source Code

Run a batch job to catalog (CATALL) all AMS modules in the LAMSPROD or other named library. The SESAAS Batch standard parameters should be used for the compile.

MODULE QSA17 needs an ESIZE setting > 99 in order to catalog. Otherwise you will receive a NAT886 error.

After all objects are compiled, the AMS application will run under the SESAAS On-line standard parameter.

6.0 Post-Predict Data Conversion

Execute, in batch, the following programs, **in the order listed**, before performing any validation testing. See Appendix E for JCL examples.

The following programs should be run in the order listed:

- CCR1317A – Adhoc for FACS History File Conversion (**NOTE:** If CCR1311J was not executed when Source Fix #1 for Release 7.9.0 was distributed, it must be executed before running CCR1317A.)
- CCR1317B – Adhoc to remove CONTRACT-FINANCING-CODE from Tables 49 and 50 and remove Table 80 – Contract Financing Codes

- CCR1318 – Adhoc to add Fee-Paid-For-Use-Of-IDV to Table 49 and to Predict AMS Table
- CCR1320A - Adhoc to add Table 84—Program Acronym – Major Program Table
- CCR1337A – Adhoc to add entry to Table 82 (Fee for Use of Services Table)
- LPDWSJCL – Loads PDWS JCL to Table 97 and Table 98 (Before submitting, please read release-specific procedures below.)

The following programs should only be executed if they were not run when the source fixes for Release 7.9.0 were distributed:

- CCR1310B – Adhoc to add global variable +CENTER to Table 39
- CCR1311D – Adhoc to add Table 81 – Other Statutory Authority Codes
- CCR1311E – Adhoc to add Table 82 – Fee for Use of Service Codes
- CCR1311G – Adhoc to update table entries on various tables
- CCR1311H – Adhoc to rebuild Table 49 – Contract Field Names and numbers
- CCR1311J – Adhoc for FACS History File Conversion (Must be run before CCR 1311L)
- CCR1311L – Adhoc to update Kind of Action/IDV Type Code based on old Kind of Action/Center Kind of Action. A report listing the converted records will be generated. (Must be run after CCR1311J)
- CCR1321 – Adhoc to update Table 50. Adds KOA 18, 19, and 20 wherever 01 and 03 already exist and 18, 19, and 20 do not
- CCR1326 – Adhoc to change existing Table 50 edits to 'A', 'B', 'C', 'D' for Subcontract Program Plan
- CCR1329 – Adhoc to add KOA 97 and KOA 98 to Table 17 (Kind of Action Table)

7.0 Release-Specific Procedures

LPDWSJCL is a reusable job and will attempt to delete these members before adding them to the tables. The input file (xxMOV.AMS.PROD.R800.R0204.PDWSJCL) will have to be modified to fit each site's currently running PDWS JCL. Use the NAIS production server name, files, user-ids, and passwords currently being used in the batch PDWS JCL at each site to replace the generic names in the input file. The top part of the input file (down to the EOH card) contains the PDWSSTND header, which will become a member of the QGA97T Table. **DO NOT REMOVE THE EOH CARD!!!** The bottom part of the input file (from the EOH card to the bottom of the input file) contains the psuedo-JCL for QGR13, which will become a member of the QGA98T table. QGR13 can be added, edited, or deleted using the table edit screens in the AMS system, but due to the size of the JCL it is recommended any changes be made in the input file and loaded into the table using LPDWSJCL.

Parameter data areas were changed in subprograms NAXPA1NA and NAPRUHNA. Centers need to review the changes made and evaluate what changes need to be made to site unique modules.

8.0 Local JCL Mods

The addition of a new field and an expansion of the length of some existing fields will affect the record length of the FACS history dataset and the FACS transmission dataset, increasing it from 1046 bytes to 1109 bytes in any JCL referencing these datasets. See Appendix E for JCL examples.

JCL modifications will be necessary for your center's PDWS extract job. A core utility, LPDWSJCL, was developed for AMS Release 7.7.0 to load the PDWS JCL from a dataset into the AMS JCL tables Table 97 and Table 98. The dataset can be modified and reloaded into the AMS JCL tables as needed. See Appendix D for the name of the dataset containing the PDWS JCL.

The record length changes for the PDWS JCL are as follows:

	<u>LRECL BEFORE</u>	<u>LRECL AFTER</u>
CONTRACTS		
put 'MSIRM.AMS0DT.CONTR.BASIC' conbas.txt	1793	1799
put 'MSIRM.AMS0DT.CONTR.COMP' concomp.txt	1793	1799
put 'MSIRM.AMS0DT.CONTR.MODS' conmod.txt	1793	1799
GRANTS		
put 'MSIRM.AMS0DT.GRANT.BASIC' grntbas.txt	1035	1119
put 'MSIRM.AMS0DT.GRANT.COMP' grntcomp.txt	1035	1119
put 'MSIRM.AMS0DT.GRANT.MODS' grntmod.txt	1035	1119
put 'MSIRM.AMS0DT.CNTR1356.DATA' contract1356.txt	1000	1084
PURCHASE ORDERS		
put 'MSIRM.AMS0DT.PURORDER.BASIC' pobas.txt	1321	1341
put 'MSIRM.AMS0DT.PURORDER.COMP' pocomp.txt	1321	1341
put 'MSIRM.AMS0DT.PURORDER.MODS' pomod.txt	1321	1341

9.0 Installation Checklist

- 1.0 Back Up Existing Data
- 2.1 Copy Source Code
- 4.0 Install Predict
- 5.0 Catalog Source Code
- 6.0 Post-Predict Data Conversion
- 7.0 Release-Specific Procedures
- 8.0 Local JCL Mods

APPENDIX E
SAMPLE JOB CONTROL LANGUAGE FOR
AMS RELEASE 8.0

SAMPLE JOB CONTROL LANGUAGE FOR ADHOC PROGRAMS IN RELEASE 8.0

Sample JCL is listed for the adhoc in Release 8.0.

1. JCL1

For Programs CCR1310B, CCR1311D, CCR1311E, CCR1311G, CCR1311H, CCR1311L, CCR1317B, CCR1318, CCR1321, CCR1326, CCR1329, and CCR1337A. Modify JCL accordingly for each program to be run.

```
*****      ***** TOP OF DATA *****
000100 //CCR1318   JOB (XXXXXXXXXXXX),AMS800,
000200 //                CLASS=D,MSGCLASS=A,
000300 //                NOTIFY=XXXXXX
000400 //*****
000500 //*
000600 //STEP01    EXEC N01Z,PRM='IM=D,MT=99999'
000700 //CMPRINT   DD SYSOUT=*
000800 //CMSYNIN   DD *
000900 AMDEVL,XXXXX,XXXXX
001000 CCR1318
001100 FIN
001200 /*
001300 //
*****      ***** BOTTOM OF DATA *****
```

2. JCL2

For Program CCR1320A.

```
*****      ***** TOP OF DATA *****
000100 //CCR1320A   JOB (XXXXXXXXXXXX),AMS800,
000200 //                CLASS=D,MSGCLASS=A,
000300 //                NOTIFY=XXXXX
000400 //*****
000500 /*
000600 //STEP01      EXEC N01Z,PRM='IM=D,MT=99999'
000700 //CMWKF01   DD DSN=xxMOV.AMS.PROD.R800.R0204.TBL084,
000800 //                DISP=SHR,DCB=(RECFM=VB,LRECL=256,BLKSIZE=6233),
000900 //                UNIT=SYSDA
001000 //CMPRINT   DD SYSOUT=(R),DEST=XXXXX
001100 //CMSYNIN    DD *
001200 AMDEVL,XXXXX,XXXXX
001300 CCR1320A
001400 FIN
001500 /*
001600 //
*****      ***** BOTTOM OF DATA *****
```

For Program CCR1320A, use dataset xxMOV.AMS.PROD.R800.R0204.TBL084.

3. JCL3

For Program LPDWSJCL.

```
*****      ***** TOP OF DATA *****
000100 //LPDWSJCL  JOB (XXXXXXXXXXXXX),AMS800,
000200 //          CLASS=D,MSGCLASS=A,
000300 //          NOTIFY=XXXXX
000400 //*****
000500 /*
000600 //STEP01      EXEC N01Z,PRM='IM=D,MT=99999'
000700 //CMWKF01    DD DSN=xxMOV.AMS.PROD.R800.R0204.TBL084,
000800 //          DISP=SHR,DCB=(RECFM=FB,LRECL=79,BLKSIZE=7900),
000900 //          UNIT=SYSDA
001000 //CMPRINT    DD SYSOUT=(R),DEST=XXXXX
001100 //CMSYNIN     DD *
001200 AMDEVL,XXXXX,XXXXX
001300 LPDWSJCL
001400 FIN
001500 /*
001600 //
*****      ***** BOTTOM OF DATA *****
```

For Program LPDWSJCL, use dataset xxMOV.AMS.PROD.R800.R0204.PDWSJCL.

4. JCL4

For Program CCR1311J

```
*****      ***** TOP OF DATA *****
000100 //CCR1311J   JOB (XXXXXXXXXXXX),AMS800,
000200 //           CLASS=D,MSGCLASS=A,
000300 //           NOTIFY=XXXXX
000400 //*****
000500 //*
000600 //STEP01      EXEC N01Z,PRM='IM=D,MT=99999'
000700 //CMWKF01    DD DSN=MSIRM.AMS0DT.HIST507.FACS(0),DISP=SHR,
000800 //              DCB=(RECFM=FB,LRECL=413,BLKSIZE=4130),
000900 //              UNIT=SYSDA
001000 //CMWKF02    DD DSN=MSIRM.AMS0DT.HIST507.FACS(+1),
001100 //              DISP=(NEW,CATLG,DELETE),
001200 //              UNIT=SYSDA,
001300 //              DCB=(RECFM=FB,LRECL=1046,BLKSIZE=23012)
001400 //CMPRINT    DD SYSOUT=(R),DEST=XXXXX
001500 //CMSYNIN     DD *
001600 AMDEVL,XXXXX,XXXXX
001700 CCR1311J
001800 FIN
001900 /*
002000 //
*****      ***** BOTTOM OF DATA *****
```

Remember to substitute the dataset names above with your site unique dataset names.

```
***Be sure to change the DCB statement to reflect the increase in the record ***
***length of the FACS history file. This must also be changed on all other ***
*** FACS related JCL. ***
```

CCR1311J should only be executed if it was not run when the Source Fix #1 for Release 7.9.0 was distributed.

5. JCL5

For Program CCR1317A

```
***** ***** TOP OF DATA *****
000100 //CCR1317A   JOB (XXXXXXXXXXXX),AMS800,
000200 //           CLASS=D,MSGCLASS=A,
000300 //           NOTIFY=XXXXX
000400 //*****
000500 //*
000600 //STEP01      EXEC N01Z,PRM='IM=D,MT=99999'
000700 //CMWKF01    DD DSN=MSIRM.AMS0DT.HIST507.FACS(0),DISP=SHR,
000800 //             DCB=(RECFM=FB,LRECL=1046,BLKSIZE=23012),
000900 //             UNIT=SYSDA
001000 //CMWKF02    DD DSN=MSIRM.AMS0DT.HIST507.FACS(+1),
001100 //             DISP=(NEW,CATLG,DELETE),
001200 //             UNIT=SYSDA,
001300 //             DCB=(RECFM=FB,LRECL=1109,BLKSIZE=4436)
001400 //CMPRINT    DD SYSOUT=(R),DEST=XXXXX
001500 //CMSYNIN     DD *
001600 AMDEVL,XXXXX,XXXXX
001700 CCR1317A
001800 FIN
001900 /*
002000 //
***** ***** BOTTOM OF DATA *****
```

Remember to substitute the dataset names above with your site unique dataset names.

*****Be sure to change the DCB statement to reflect the increase in the record
***length of the FACS history file. This must also be changed on all other
*** FACS related JCL.*****

6. JCL6

For FACS Contract Lead Time Report

```
***** ***** TOP OF DATA *****
000100 //FACSL   JOB (XXXXXXXXXXXX),AMS800,
000200 //          CLASS=D,MSGCLASS=A,
000300 //          NOTIFY=XXXXX
000400 //*****
000500 //*
000600 //STEP01      EXEC N01Z,PRM='IM=D,MT=99999'
000700 //CMWKF01     DD DSN=MSIRM.AMS0DT.HIST507.FACS(0),DISP=SHR
001000 //CMPRINT     DD SYSOUT=(A,P3103102)
001100 //CMSYNIN      DD *
001200 AMDEVL,XXXXX,XXXXX
001300 NAGR01PA
001400 20031001,20031001
001500 FIN
001600 /*
001700 //
***** ***** BOTTOM OF DATA *****
```

Remember to substitute the dataset names above with your site unique dataset names.

7. JCL7

For FACS Trial Run Submission

```
*****      ***** TOP OF DATA *****
000100 //FACSQGR7  JOB (XXXXXXXXXXXXX),AMS800,
000200 //          CLASS=D,MSGCLASS=A,
000300 //          NOTIFY=XXXXX
000400 //*****
000500 //*
000600 //STEP01      EXEC N01Z,PRM='IM=D,MT=99999'
000700 //CMWKF01    DD DSN=MSIRM.AMS0DT.HIST507.FACS(0),DISP=SHR
001000 //CMPRINT    DD SYSOUT=(A,P3103102)
001100 //CMSYNIN     DD *
001200 AMDEVL,XXXXX,XXXXX
001300 QGR07
001400 20031001,20031001,10
001500 FIN
001600 /*
001700 //
*****      ***** BOTTOM OF DATA *****
```

Remember to substitute the dataset names above with your site unique dataset names.

8. JCL8

For FACS Monthly Submission

```
*****      ***** TOP OF DATA *****
000100 //FACQGR14  JOB (XXXXXXXXXXXXX),AMS800,
000200 //          CLASS=D,MSGCLASS=A,
000300 //          NOTIFY=XXXXX
000400 //*****
000500 //*
000600 //STEP01      EXEC N01Z,PRM='IM=D,MT=99999'
000700 //CMWKF01    DD DSN=MSIRM.AMS0DT.HIST507.FACS(0),DISP=SHR,
000800 //          DCB=(RECFM=FB,LRECL=1109,BLKSIZE=4436),
000900 //          UNIT=SYSDA
000905 //CMWKF02    DD DSN=MSIRM.AMS0DT.HIST507.FACS(+1),
000910 //          DISP=(NEW,CATLG,DELETE),
000915 //          UNIT=SYSDA,
000920 //          DCB=(RECFM=FB,LRECL=1109,BLKSIZE=4436)
000925 //CMWKF03    DD DSN=MSIRM.AMS0DT.FACS507.FACS(+1),
000930 //          DISP=(NEW,CATLG,DELETE),
000935 //          UNIT=SYSDA,
000940 //          DCB=(RECFM=FB,LRECL=1109,BLKSIZE=4436)
001000 //CMPRINT    DD SYSOUT=(A,P3103102)
001100 //CMSYNIN     DD *
001200 AMDEVL,XXXXX,XXXXX
001300 QGR14
001400 20031001,20031001,10
001500 FIN
001600 /*
001700 //
*****      ***** BOTTOM OF DATA *****
```

Remember to substitute the dataset names above with your site unique dataset names.

*****Be sure to change the DCB statement to reflect the increase in the record
length of the FACS history file and FACS transmission file.**

APPENDIX F
TABLE 50 - 507 EDITS

The following listing was prepared to assist you in testing CCR1321. It contains all the modified 507 edits that pertain to the Kind of Actions 18, 19, and 20. These edits are formatted as they appear in Table 50.

KEY	RESULT
=====	=====
111 21	O12O1501030506181920212324252607080910111213141617 5354979899
111 < 21	O12O1501030506181920212324252607080910111213141617 5354979899
31 21	R09N00010305061819202127
31 > 21	R07N0020232425262861
45 21	R05N000506212324
45 > 21	R12N00010305061819202526272861
59 > 21	R08N000103181920252627
20 AY21	R02R16232407080910111213141516175354979899
20 BH21	R01R162107080910111213141516175354979899
20 BR21	R01R162107080910111213141516175354979899
20 BT21	R01R160607080910111213141516175354979899
20 BY21	R02R16232407080910111213141516175354979899
20 DH21	R01R162107080910111213141516175354979899
20 DL21	R02R16232407080910111213141516175354979899
20 DO21	R02R16232407080910111213141516175354979899
20 DR21	R01R162107080910111213141516175354979899
20 DT21	R01R160607080910111213141516175354979899
20 FY21	R02R16232407080910111213141516175354979899
20 KH21	R01R162107080910111213141516175354979899
20 KR21	R01R162107080910111213141516175354979899
20 KT21	R01R160607080910111213141516175354979899
20 KY21	R02R16232407080910111213141516175354979899
20 NH21	R01R162107080910111213141516175354979899
20 NL21	R02R16232407080910111213141516175354979899
20 NO21	R02R16232407080910111213141516175354979899
20 NR21	R01R162107080910111213141516175354979899
20 NT21	R01R160607080910111213141516175354979899
20 RH21	R01R162107080910111213141516175354979899
20 RR21	R01R162107080910111213141516175354979899
20 RT21	R01R160607080910111213141516175354979899
20 ST21	R01R160607080910111213141516175354979899
20 SW21	R01R162107080910111213141516175354979899
20 SX21	R01R162107080910111213141516175354979899
20 TH21	R01R162107080910111213141516175354979899
20 TR21	R01R162107080910111213141516175354979899
20 TT21	R01R160607080910111213141516175354979899
20 WT21	R01R160607080910111213141516175354979899
20 WW21	R01R162107080910111213141516175354979899
20 WX21	R01R162107080910111213141516175354979899
20 XH21	R01R162107080910111213141516175354979899
20 XR21	R01R162107080910111213141516175354979899
20 XT21	R01R160607080910111213141516175354979899

20 YH21	R01R162107080910111213141516175354979899
20 YR21	R01R162107080910111213141516175354979899
20 YT21	R01R160607080910111213141516175354979899
20 9821	R01R160507080910111213141516175354979899
20 1BA21	R08R16010318192025262807080910111213141516175354979899
20 1BB21	R08R16010318192025262807080910111213141516175354979899
20 1BD21	R08R16010318192025262807080910111213141516175354979899
20 1BG21	R08R16010318192025262807080910111213141516175354979899
20 1BH21	R08R16010318192025262807080910111213141516175354979899
20 1BI21	R08R16010318192025262807080910111213141516175354979899
20 1BJ21	R08R160103181920252628070809101112131415161753549798 99
20 1BK21	R08R16010318192025262807080910111213141516175354979899
20 1BN21	R08R16010318192025262807080910111213141516175354979899
20 1BR21	R08R16010318192025262807080910111213141516175354979899
20 1BS21	R08R16010318192025262807080910111213141516175354979899
20 1DA21	R08R16010318192025262807080910111213141516175354979899
20 1DB21	R08R16010318192025262807080910111213141516175354979899
20 1DD21	R08R16010318192025262807080910111213141516175354979899
20 1DG21	R08R16010318192025262807080910111213141516175354979899
20 1DH21	R08R16010318192025262807080910111213141516175354979899
20 1DI21	R08R16010318192025262807080910111213141516175354979899
20 1DJ21	R08R16010318192025262807080910111213141516175354979899
20 1DK21	R08R16010318192025262807080910111213141516175354979899
20 1DN21	R08R16010318192025262807080910111213141516175354979899
20 1DR21	R08R16010318192025262807080910111213141516175354979899
20 1DS21	R08R16010318192025262807080910111213141516175354979899
20 1GA21	R08R16010318192025262807080910111213141516175354979899
20 1GS21	R08R16010318192025262807080910111213141516175354979899

	9899
20 1JA21	R08R1601031819202526280708091011121314151617535497
	9899
20 1JS21	R08R1601031819202526280708091011121314151617535497
	9899
20 1KA21	R08R1601031819202526280708091011121314151617535497
	9899
20 1KB21	R08R1601031819202526280708091011121314151617535497
	9899
20 1KD21	R08R1601031819202526280708091011121314151617535497
	9899
20 1KG21	R08R1601031819202526280708091011121314151617535497
	9899
20 1KH21	R08R1601031819202526280708091011121314151617535497
	9899
20 1KI21	R08R1601031819202526280708091011121314151617535497
	9899
20 1KJ21	R08R1601031819202526280708091011121314151617535497
	9899
20 1KK21	R08R1601031819202526280708091011121314151617535497
	9899
20 1KN21	R08R1601031819202526280708091011121314151617535497
	9899
20 1KR21	R08R1601031819202526280708091011121314151617535497
	9899
20 1KS21	R08R1601031819202526280708091011121314151617535497
	9899
20 1NA21	R08R1601031819202526280708091011121314151617535497
	9899
20 1NB21	R08R1601031819202526280708091011121314151617535497
	9899
20 1ND21	R08R1601031819202526280708091011121314151617535497
	9899
20 1NG21	R08R1601031819202526280708091011121314151617535497
	9899
20 1NH21	R08R1601031819202526280708091011121314151617535497
	9899
20 1NI21	R08R1601031819202526280708091011121314151617535497
	9899
20 1NJ21	R08R1601031819202526280708091011121314151617535497
	9899
20 1NK21	R08R1601031819202526280708091011121314151617535497
	9899
20 1NN21	R08R1601031819202526280708091011121314151617535497
	9899
20 1NR21	R08R1601031819202526280708091011121314151617535497
	9899
20 1NS21	R08R1601031819202526280708091011121314151617535497
	9899
20 1RF21	R08R1601031819202526280708091011121314151617535497
	9899

20 1RX21	R08R1601031819202526280708091011121314151617535497 9899
20 1SE21	R08R1601031819202526280708091011121314151617535497 9899
20 1SF21	R08R1601031819202526280708091011121314151617535497 9899
20 1TB21	R08R1601031819202526280708091011121314151617535497 9899
20 1TD21	R08R1601031819202526280708091011121314151617535497 9899
20 1TG21	R08R1601031819202526280708091011121314151617535497 9899
20 1TH21	R08R1601031819202526280708091011121314151617535497 9899
20 1TI21	R08R1601031819202526280708091011121314151617535497 9899
20 1TJ21	R08R1601031819202526280708091011121314151617535497 9899
20 1TK21	R08R1601031819202526280708091011121314151617535497 9899
20 1TN21	R08R1601031819202526280708091011121314151617535497 9899
20 1TR21	R08R1601031819202526280708091011121314151617535497 9899
20 1TS21	R08R1601031819202526280708091011121314151617535497 9899
20 1WB21	R08R1601031819202526280708091011121314151617535497 9899
20 1WD21	R08R1601031819202526280708091011121314151617535497 9899
20 1WG21	R08R1601031819202526280708091011121314151617535497 9899
20 1WH21	R08R1601031819202526280708091011121314151617535497 9899
20 1WI21	R08R1601031819202526280708091011121314151617535497 9899
20 1WJ21	R08R1601031819202526280708091011121314151617535497 9899
20 1WK21	R08R1601031819202526280708091011121314151617535497 9899
20 1WN21	R08R1601031819202526280708091011121314151617535497 9899
20 1WR21	R08R1601031819202526280708091011121314151617535497 9899
20 1WS21	R08R1601031819202526280708091011121314151617535497 9899
20 1XF21	R08R1601031819202526280708091011121314151617535497 9899
20 1YF21	R08R1601031819202526280708091011121314151617535497 9899
20 2AE21	R08R1601031819202526280708091011121314151617535497

	9899
20 2AF21	R08R1601031819202526280708091011121314151617535497 9899
20 2AL21	R08R1601031819202526280708091011121314151617535497 9899
20 2AO21	R08R1601031819202526280708091011121314151617535497 9899
20 2AP21	R08R1601031819202526280708091011121314151617535497 9899
20 2AQ21	R08R1601031819202526280708091011121314151617535497 9899
20 2AU21	R08R1601031819202526280708091011121314151617535497 9899
20 2AV21	R08R1601031819202526280708091011121314151617535497 9899
20 2AX21	R08R1601031819202526280708091011121314151617535497 9899
20 2AZ21	R08R1601031819202526280708091011121314151617535497 9899
20 2BE21	R08R1601031819202526280708091011121314151617535497 9899
20 2BF21	R08R1601031819202526280708091011121314151617535497 9899
20 2BL21	R08R1601031819202526280708091011121314151617535497 9899
20 2BO21	R08R1601031819202526280708091011121314151617535497 9899
20 2BP21	R08R1601031819202526280708091011121314151617535497 9899
20 2BQ21	R08R1601031819202526280708091011121314151617535497 9899
20 2BU21	R08R1601031819202526280708091011121314151617535497 9899
20 2BV21	R08R1601031819202526280708091011121314151617535497 9899
20 2BX21	R08R1601031819202526280708091011121314151617535497 9899
20 2BZ21	R08R1601031819202526280708091011121314151617535497 9899
20 2DL21	R08R1601031819202526280708091011121314151617535497 9899
20 2DO21	R08R1601031819202526280708091011121314151617535497 9899
20 2DP21	R08R1601031819202526280708091011121314151617535497 9899
20 2DQ21	R08R1601031819202526280708091011121314151617535497 9899
20 2DU21	R08R1601031819202526280708091011121314151617535497 9899
20 2DV21	R08R1601031819202526280708091011121314151617535497 9899

20 2DZ21	R08R1601031819202526280708091011121314151617535497 9899
20 2FE21	R08R1601031819202526280708091011121314151617535497 9899
20 2FF21	R08R1601031819202526280708091011121314151617535497 9899
20 2FL21	R08R1601031819202526280708091011121314151617535497 9899
20 2FO21	R08R1601031819202526280708091011121314151617535497 9899
20 2FP21	R08R1601031819202526280708091011121314151617535497 9899
20 2FQ21	R08R1601031819202526280708091011121314151617535497 9899
20 2FU21	R08R1601031819202526280708091011121314151617535497 9899
20 2FV21	R08R1601031819202526280708091011121314151617535497 9899
20 2FX21	R08R1601031819202526280708091011121314151617535497 9899
20 2FZ21	R08R1601031819202526280708091011121314151617535497 9899
20 2GF21	R08R1601031819202526280708091011121314151617535497 9899
20 2HS21	R08R1601031819202526280708091011121314151617535497 9899
20 2KE21	R08R1601031819202526280708091011121314151617535497 9899
20 2KL21	R08R1601031819202526280708091011121314151617535497 9899
20 2KO21	R08R1601031819202526280708091011121314151617535497 9899
20 2KP21	R08R1601031819202526280708091011121314151617535497 9899
20 2KQ21	R08R1601031819202526280708091011121314151617535497 9899
20 2KU21	R08R1601031819202526280708091011121314151617535497 9899
20 2KV21	R08R1601031819202526280708091011121314151617535497 9899
20 2KX21	R08R1601031819202526280708091011121314151617535497 9899
20 2KZ21	R08R1601031819202526280708091011121314151617535497 9899
20 2NL21	R09R1601031819202324252607080910111213141516175354 979899
20 2NO21	R09R1601031819202324252607080910111213141516175354 979899
20 2NP21	R08R1601031819202526280708091011121314151617535497 9899
20 2NQ21	R08R1601031819202526280708091011121314151617535497

	9899
20 2NU21	R08R1601031819202526280708091011121314151617535497 9899
20 2NV21	R08R1601031819202526280708091011121314151617535497 9899
20 2NZ21	R08R1601031819202526280708091011121314151617535497 9899
20 2PF21	R09R1601031819202526272807080910111213141516175354 979899
20 2PS21	R09R1601031819202526272807080910111213141516175354 979899
20 2QF21	R08R1601031819202526280708091011121314151617535497 9899
20 2QL21	R08R1601031819202526280708091011121314151617535497 9899
20 2QO21	R08R1601031819202526280708091011121314151617535497 9899
20 2QP21	R08R1601031819202526280708091011121314151617535497 9899
20 2QQ21	R08R1601031819202526280708091011121314151617535497 9899
20 2QU21	R08R1601031819202526280708091011121314151617535497 9899
20 2QV21	R08R1601031819202526280708091011121314151617535497 9899
20 2QX21	R08R1601031819202526280708091011121314151617535497 9899
20 2QZ21	R08R1601031819202526280708091011121314151617535497 9899
20 2RE21	R08R1601031819202526280708091011121314151617535497 9899
20 2RF21	R08R1601031819202526280708091011121314151617535497 9899
20 2RL21	R08R1601031819202526280708091011121314151617535497 9899
20 2RO21	R08R1601031819202526280708091011121314151617535497 9899
20 2RP21	R08R1601031819202526280708091011121314151617535497 9899
20 2RQ21	R08R1601031819202526280708091011121314151617535497 9899
20 2RS21	R08R1601031819202526280708091011121314151617535497 9899
20 2RU21	R08R1601031819202526280708091011121314151617535497 9899
20 2RV21	R08R1601031819202526280708091011121314151617535497 9899
20 2RZ21	R08R1601031819202526280708091011121314151617535497 9899
20 2SL21	R08R1601031819202526280708091011121314151617535497 9899

20 2SO21	R08R1601031819202526280708091011121314151617535497 9899
20 2SP21	R08R1601031819202526280708091011121314151617535497 9899
20 2SQ21	R08R1601031819202526280708091011121314151617535497 9899
20 2SU21	R08R1601031819202526280708091011121314151617535497 9899
20 2SV21	R08R1601031819202526280708091011121314151617535497 9899
20 2SZ21	R08R1601031819202526280708091011121314151617535497 9899
20 2TE21	R08R1601031819202526280708091011121314151617535497 9899
20 2TF21	R08R1601031819202526280708091011121314151617535497 9899
20 2TL21	R08R1601031819202526280708091011121314151617535497 9899
20 2TO21	R08R1601031819202526280708091011121314151617535497 9899
20 2TP21	R08R1601031819202526280708091011121314151617535497 9899
20 2TQ21	R08R1601031819202526280708091011121314151617535497 9899
20 2TU21	R08R1601031819202526280708091011121314151617535497 9899
20 2TV21	R08R1601031819202526280708091011121314151617535497 9899
20 2TX21	R08R1601031819202526280708091011121314151617535497 9899
20 2TZ21	R08R1601031819202526280708091011121314151617535497 9899
20 2UF21	R08R1601031819202526280708091011121314151617535497 9899
20 2UL21	R08R1601031819202526280708091011121314151617535497 9899
20 2UO21	R08R1601031819202526280708091011121314151617535497 9899
20 2UP21	R08R1601031819202526280708091011121314151617535497 9899
20 2UQ21	R08R1601031819202526280708091011121314151617535497 9899
20 2UU21	R08R1601031819202526280708091011121314151617535497 9899
20 2UV21	R08R1601031819202526280708091011121314151617535497 9899
20 2UX21	R08R1601031819202526280708091011121314151617535497 9899
20 2UZ21	R08R1601031819202526280708091011121314151617535497 9899
20 2WL21	R08R1601031819202526280708091011121314151617535497

	9899
20 2WO21	R08R1601031819202526280708091011121314151617535497 9899
20 2WP21	R08R1601031819202526280708091011121314151617535497 9899
20 2WQ21	R08R1601031819202526280708091011121314151617535497 9899
20 2WU21	R08R1601031819202526280708091011121314151617535497 9899
20 2WV21	R08R1601031819202526280708091011121314151617535497 9899
20 2WZ21	R08R1601031819202526280708091011121314151617535497 9899
20 2XD21	R08R1601031819202526280708091011121314151617535497 9899
20 2XE21	R08R1601031819202526280708091011121314151617535497 9899
20 2XL21	R08R1601031819202526280708091011121314151617535497 9899
20 2XO21	R08R1601031819202526280708091011121314151617535497 9899
20 2XP21	R08R1601031819202526280708091011121314151617535497 9899
20 2XQ21	R08R1601031819202526280708091011121314151617535497 9899
20 2XU21	R08R1601031819202526280708091011121314151617535497 9899
20 2XV21	R08R1601031819202526280708091011121314151617535497 9899
20 2XX21	R08R1601031819202526280708091011121314151617535497 9899
20 2XZ21	R08R1601031819202526280708091011121314151617535497 9899
20 2YL21	R08R1601031819202526280708091011121314151617535497 9899
20 2YO21	R08R1601031819202526280708091011121314151617535497 9899
20 2YP21	R08R1601031819202526280708091011121314151617535497 9899
20 2YQ21	R08R1601031819202526280708091011121314151617535497 9899
20 2YU21	R08R1601031819202526280708091011121314151617535497 9899
20 2YV21	R08R1601031819202526280708091011121314151617535497 9899
20 2YZ21	R08R1601031819202526280708091011121314151617535497 9899
20 2ZD21	R08R1601031819202526280708091011121314151617535497 9899
20 2ZE21	R08R1601031819202526280708091011121314151617535497 9899

20 2ZL21	R08R1601031819202526280708091011121314151617535497 9899
20 2ZO21	R08R1601031819202526280708091011121314151617535497 9899
20 2ZP21	R08R1601031819202526280708091011121314151617535497 9899
20 2ZQ21	R08R1601031819202526280708091011121314151617535497 9899
20 2ZU21	R08R1601031819202526280708091011121314151617535497 9899
20 2ZV21	R08R1601031819202526280708091011121314151617535497 9899
20 2ZX21	R08R1601031819202526280708091011121314151617535497 9899
20 2ZZ21	R08R1601031819202526280708091011121314151617535497 9899
20 3PF21	R09R1601031819202526272807080910111213141516175354 979899
20 3PS21	R09R1601031819202526272807080910111213141516175354 979899
20 4PF21	R09R1601031819202526272807080910111213141516175354 979899
20 4PS21	R09R1601031819202526272807080910111213141516175354 979899

The following listing was prepared to assist you in testing CCR1326. It contains all the modified 507 edits that pertain to the Subcontract Program Plan. These edits are formatted as they appear in Table 50.

KEY	RESULT
=====	=====
20 AY52	B00B00
20 BH52	B00B00
20 BR52	B00B00
20 BT52	B00B00
20 BY52	B00B00
20 DH52	B00B00
20 DL52	R04O04A B C D A B C D
20 DO52	R04O04A B C D A B C D
20 DR52	B00B00
20 DT52	B00B00
20 FY52	B00B00
20 KH52	B00B00
20 KR52	B00B00
20 KT52	B00B00
20 KY52	B00B00
20 NH52	B00B00
20 NL52	R04O04A B C D A B C D
20 NO52	R04O04A B C D A B C D
20 NR52	B00B00
20 NT52	B00B00
20 RH52	B00B00
20 RR52	B00B00
20 RT52	B00B00
20 ST52	B00B00
20 SW52	B00B00
20 SX52	B00B00
20 TH52	B00B00
20 TR52	B00B00
20 TT52	B00B00
20 WT52	B00B00
20 WW52	B00B00
20 WX52	B00B00
20 XH52	B00B00
20 XR52	B00B00
20 XT52	B00B00
20 YH52	B00B00
20 YR52	B00B00
20 YT52	B00B00
20 9852	B00B00
20 1BA52	R04O04A B C D A B C D

20	1BB52	R04O04A B C D A B C D
20	1BD52	R04O04A B C D A B C D
20	1BG52	R04O04A B C D A B C D
20	1BH52	B00B00
20	1BI52	R04O04A B C D A B C D
20	1BJ52	R04O04A B C D A B C D
20	1BK52	R04O04A B C D A B C D
20	1BN52	R04O04A B C D A B C D
20	1BR52	B00B00
20	1BS52	R04O04A B C D A B C D
20	1DA52	R04O04A B C D A B C D
20	1DB52	R04O04A B C D A B C D
20	1DD52	R04O04A B C D A B C D
20	1DG52	R04O04A B C D A B C D
20	1DH52	B00B00
20	1DI52	R04O04A B C D A B C D
20	1DJ52	R04O04A B C D A B C D
20	1DK52	R04O04A B C D A B C D
20	1DN52	R04O04A B C D A B C D
20	1DR52	B00B00
20	1DS52	R04O04A B C D A B C D
20	1GA52	R04O04A B C D A B C D
20	1GS52	R04O04A B C D A B C D
20	1JA52	R04O04A B C D A B C D
20	1JS52	R04O04A B C D A B C D
20	1KA52	R04O04A B C D A B C D
20	1KB52	R04O04A B C D A B C D
20	1KD52	R04O04A B C D A B C D
20	1KG52	R04O04A B C D A B C D
20	1KH52	B00B00
20	1KI52	R04O04A B C D A B C D
20	1KJ52	R04O04A B C D A B C D
20	1KK52	R04O04A B C D A B C D
20	1KN52	R04O04A B C D A B C D
20	1KR52	B00B00
20	1KS52	R04O04A B C D A B C D
20	1NA52	R04O04A B C D A B C D
20	1NB52	R04O04A B C D A B C D
20	1ND52	R04O04A B C D A B C D
20	1NG52	R04O04A B C D A B C D
20	1NH52	B00B00
20	1NI52	R04O04A B C D A B C D
20	1NJ52	R04O04A B C D A B C D
20	1NK52	R04O04A B C D A B C D
20	1NN52	R04O04A B C D A B C D
20	1NR52	B00B00

20	1NS52	R04O04A B C D A B C D
20	1RF52	R04O04A B C D A B C D
20	1RX52	R04O04A B C D A B C D
20	1SE52	R04O04A B C D A B C D
20	1SF52	R04O04A B C D A B C D
20	1TB52	R04O04A B C D A B C D
20	1TD52	R04O04A B C D A B C D
20	1TG52	R04O04A B C D A B C D
20	1TH52	B00B00
20	1TI52	R04O04A B C D A B C D
20	1TJ52	R04O04A B C D A B C D
20	1TK52	R04O04A B C D A B C D
20	1TN52	R04O04A B C D A B C D
20	1TR52	B00B00
20	1TS52	R04O04A B C D A B C D
20	1WB52	R04O04A B C D A B C D
20	1WD52	R04O04A B C D A B C D
20	1WG52	R04O04A B C D A B C D
20	1WH52	B00B00
20	1WI52	R04O04A B C D A B C D
20	1WJ52	R04O04A B C D A B C D
20	1WK52	R04O04A B C D A B C D
20	1WN52	R04O04A B C D A B C D
20	1WR52	B00B00
20	1WS52	R04O04A B C D A B C D
20	1XF52	R04O04A B C D A B C D
20	1YF52	R04O04A B C D A B C D
20	2AE52	R04O04A B C D A B C D
20	2AF52	R04O04A B C D A B C D
20	2AL52	R04O04A B C D A B C D
20	2AO52	R04O04A B C D A B C D
20	2AP52	R04O04A B C D A B C D
20	2AQ52	R04O04A B C D A B C D
20	2AU52	R04O04A B C D A B C D
20	2AV52	R04O04A B C D A B C D
20	2AX52	R04O04A B C D A B C D
20	2AZ52	R04O04A B C D A B C D
20	2BE52	R04O04A B C D A B C D
20	2BF52	R04O04A B C D A B C D
20	2BL52	R04O04A B C D A B C D
20	2BO52	R04O04A B C D A B C D
20	2BP52	R04O04A B C D A B C D
20	2BQ52	R04O04A B C D A B C D
20	2BU52	R04O04A B C D A B C D
20	2BV52	R04O04A B C D A B C D
20	2BX52	R04O04A B C D A B C D

20	2BZ52	R04O04A B C D A B C D
20	2DL52	R04O04A B C D A B C D
20	2DO52	R04O04A B C D A B C D
20	2DP52	R04O04A B C D A B C D
20	2DQ52	R04O04A B C D A B C D
20	2DU52	R04O04A B C D A B C D
20	2DV52	R04O04A B C D A B C D
20	2DZ52	R04O04A B C D A B C D
20	2FE52	R04O04A B C D A B C D
20	2FF52	R04O04A B C D A B C D
20	2FL52	R04O04A B C D A B C D
20	2FO52	R04O04A B C D A B C D
20	2FP52	R04O04A B C D A B C D
20	2FQ52	R04O04A B C D A B C D
20	2FU52	R04O04A B C D A B C D
20	2FV52	R04O04A B C D A B C D
20	2FX52	R04O04A B C D A B C D
20	2FZ52	R04O04A B C D A B C D
20	2GF52	R04O04A B C D A B C D
20	2HS52	R04O04A B C D A B C D
20	2KE52	R04O04A B C D A B C D
20	2KL52	R04O04A B C D A B C D
20	2KO52	R04O04A B C D A B C D
20	2KP52	R04O04A B C D A B C D
20	2KQ52	R04O04A B C D A B C D
20	2KU52	R04O04A B C D A B C D
20	2KV52	R04O04A B C D A B C D
20	2KX52	R04O04A B C D A B C D
20	2KZ52	R04O04A B C D A B C D
20	2NL52	R04O04A B C D A B C D
20	2NO52	R04O04A B C D A B C D
20	2NP52	R04O04A B C D A B C D
20	2NQ52	R04O04A B C D A B C D
20	2NU52	R04O04A B C D A B C D
20	2NV52	R04O04A B C D A B C D
20	2NZ52	R04O04A B C D A B C D
20	2PF52	R04O04A B C D A B C D
20	2PS52	R04O04A B C D A B C D
20	2QF52	R04O04A B C D A B C D
20	2QL52	R04O04A B C D A B C D
20	2QO52	R04O04A B C D A B C D
20	2QP52	R04O04A B C D A B C D
20	2QQ52	R04O04A B C D A B C D
20	2QU52	R04O04A B C D A B C D
20	2QV52	R04O04A B C D A B C D
20	2QX52	R04O04A B C D A B C D

20	2QZ52	R04O04A B C D A B C D
20	2RE52	R04O04A B C D A B C D
20	2RF52	R04O04A B C D A B C D
20	2RL52	R04O04A B C D A B C D
20	2RO52	R04O04A B C D A B C D
20	2RP52	R04O04A B C D A B C D
20	2RQ52	R04O04A B C D A B C D
20	2RS52	R04O04A B C D A B C D
20	2RU52	R04O04A B C D A B C D
20	2RV52	R04O04A B C D A B C D
20	2RZ52	R04O04A B C D A B C D
20	2SL52	R04O04A B C D A B C D
20	2SO52	R04O04A B C D A B C D
20	2SP52	R04O04A B C D A B C D
20	2SQ52	R04O04A B C D A B C D
20	2SU52	R04O04A B C D A B C D
20	2SV52	R04O04A B C D A B C D
20	2SZ52	R04O04A B C D A B C D
20	2TE52	R04O04A B C D A B C D
20	2TF52	R04O04A B C D A B C D
20	2TL52	R04O04A B C D A B C D
20	2TO52	R04O04A B C D A B C D
20	2TP52	R04O04A B C D A B C D
20	2TQ52	R04O04A B C D A B C D
20	2TU52	R04O04A B C D A B C D
20	2TV52	R04O04A B C D A B C D
20	2TX52	R04O04A B C D A B C D
20	2TZ52	R04O04A B C D A B C D
20	2UF52	R04O04A B C D A B C D
20	2UL52	R04O04A B C D A B C D
20	2UO52	R04O04A B C D A B C D
20	2UP52	R04O04A B C D A B C D
20	2UQ52	R04O04A B C D A B C D
20	2UU52	R04O04A B C D A B C D
20	2UV52	R04O04A B C D A B C D
20	2UX52	R04O04A B C D A B C D
20	2UZ52	R04O04A B C D A B C D
20	2WL52	R04O04A B C D A B C D
20	2WO52	R04O04A B C D A B C D
20	2WP52	R04O04A B C D A B C D
20	2WQ52	R04O04A B C D A B C D
20	2WU52	R04O04A B C D A B C D
20	2WV52	R04O04A B C D A B C D
20	2WZ52	R04O04A B C D A B C D
20	2XD52	R04O04A B C D A B C D
20	2XE52	R04O04A B C D A B C D

20	2XL52	R04O04A B C D A B C D
20	2XO52	R04O04A B C D A B C D
20	2XP52	R04O04A B C D A B C D
20	2XQ52	R04O04A B C D A B C D
20	2XU52	R04O04A B C D A B C D
20	2XV52	R04O04A B C D A B C D
20	2XX52	R04O04A B C D A B C D
20	2XZ52	R04O04A B C D A B C D
20	2YL52	R04O04A B C D A B C D
20	2YO52	R04O04A B C D A B C D
20	2YP52	R04O04A B C D A B C D
20	2YQ52	R04O04A B C D A B C D
20	2YU52	R04O04A B C D A B C D
20	2YV52	R04O04A B C D A B C D
20	2YZ52	R04O04A B C D A B C D
20	2ZD52	R04O04A B C D A B C D
20	2ZE52	R04O04A B C D A B C D
20	2ZL52	R04O04A B C D A B C D
20	2ZO52	R04O04A B C D A B C D
20	2ZP52	R04O04A B C D A B C D
20	2ZQ52	R04O04A B C D A B C D
20	2ZU52	R04O04A B C D A B C D
20	2ZV52	R04O04A B C D A B C D
20	2ZX52	R04O04A B C D A B C D
20	2ZZ52	R04O04A B C D A B C D
20	3BC52	R04O04A B C D A B C D
20	3DC52	R04O04A B C D A B C D
20	3KC52	R04O04A B C D A B C D
20	3NC52	R04O04A B C D A B C D
20	3PF52	R04O04A B C D A B C D
20	3PS52	R04O04A B C D A B C D
20	3RC52	R04O04A B C D A B C D
20	3SC52	R04O04A B C D A B C D
20	3TC52	R04O04A B C D A B C D
20	3WC52	R04O04A B C D A B C D
20	3XC52	R04O04A B C D A B C D
20	3YC52	R04O04A B C D A B C D
20	4BC52	R04O04A B C D A B C D
20	4DC52	R04O04A B C D A B C D
20	4KC52	R04O04A B C D A B C D
20	4NC52	R04O04A B C D A B C D
20	4PF52	R04O04A B C D A B C D
20	4PS52	R04O04A B C D A B C D
20	4RC52	R04O04A B C D A B C D
20	4SC52	R04O04A B C D A B C D
20	4TC52	R04O04A B C D A B C D

20	4WC52	R04O04A B C D A B C D
20	4XC52	R04O04A B C D A B C D
20	4YC52	R04O04A B C D A B C D